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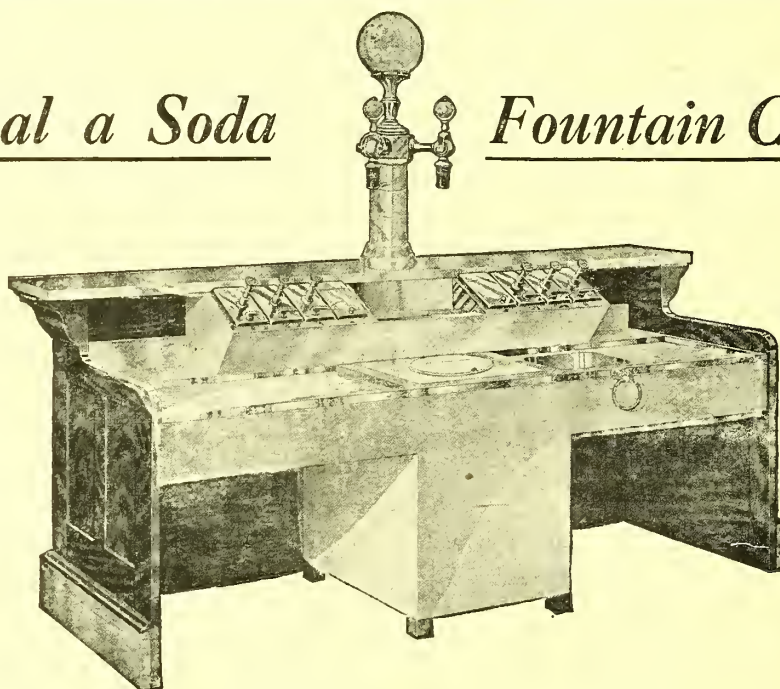
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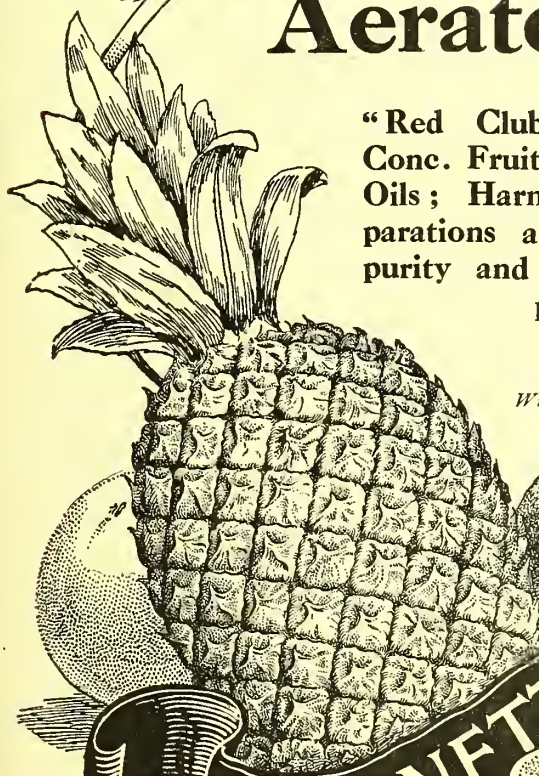


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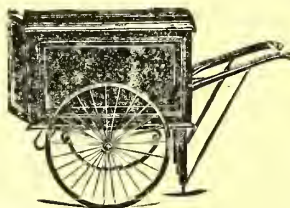
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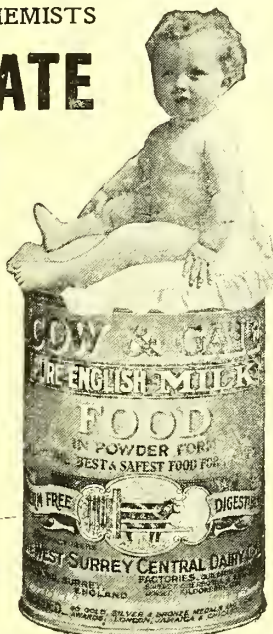
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	1/8	1/8	15/- doz.	
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THE REPORT

HUGE FIRE IN LONDON.

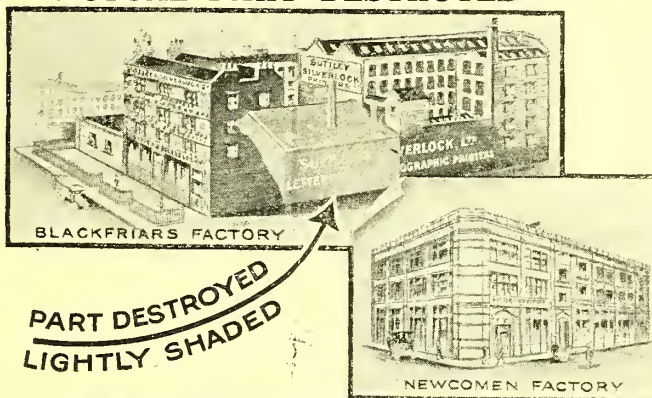
Twenty Engines Engaged in Blackfriars Road.

A huge fire broke out shortly after midnight in Blackfriars-road. The flames attracted unusual attention, the glare being so novel in the blackness. The blaze seemed likely to develop into alarming dimensions, and a "district" call was sent out by the brigade.

The firm was that of Suttley and Silverlock, and before the flames were extinguished considerable damage was done to the machine rooms.

A huge crowd was attracted to the scene despite the heavy rain, but shortly after one o'clock the fire was well in hand, a force of about 20 engines having been engaged.

ACTUAL PART DESTROYED



Cutting from Daily News & Leader
March 8th

WHAT REALLY HAPPENED

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Possesses not only strong antiseptic, but deodorizing and oxidizing properties, as the result of which the teeth, after a few days' use of CALOX acquire a pearly whiteness.—THE CHEMIST AND DRUGGIST, London.

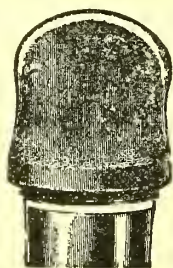
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SELF-FIXING
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AIR-TIGHT & SPIRIT-PROOF

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The Viscose Development Co., Ltd.
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Ticket free on application to—
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ELEVEN CENT LONDON

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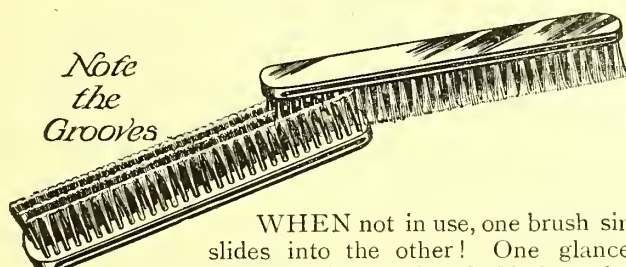
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7-12, ALDERSGATE ST.
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CITY 7
PRIVATE BRANCH EXCHANGE

NUMBER 231

MARCH 18, 1916



*Note
the
Grooves*

COMPACT
HAT
&
CLOTH
BRUSHES

WHEN not in use, one brush simply slides into the other! One glance at this ingenious pair of Cloth and Hat Brushes is sufficient to convince a customer. *He will want a set.*

Beautifully made of the best quality material.

Per pair, Satinwood	...	...	4/6
" " Ebony	...	...	5/-

OUR FAMOUS SUPPOSITORY LADLE with SPATULA.

We say "famous," yet we only introduced it a month or so ago. But the big demand justifies the title. Then "Capsule" reviewed the line in these columns. Result: *More orders.*

This Aluminium Suppository Ladle with Spatula is unbreakable, light, and durable. The specially shaped handle prevents it from upsetting. The price is only 1/6 complete.

AN ACID-PROOF PALETTE KNIFE.

MADE of steel, and covered with vulcanite. Will be found most flexible in use and can be easily cleaned. It is impossible for rust to obtain a hold upon this pattern, and chemicals do not affect it in any way. Fitted with balance handle. 4" blade ... 21/- per doz. 6" " ... 27/-

SHOWCARD STANDS.

A NEW introduction. Made of stout glass, and forms a stable support for quite large cards. The stand measures 4" high, and makes a striking addition for your counter or window shelf.

Order No. 1378.
Price 6/- per doz.



Distracting the Mind.

ALTHOUGH we are at war, it is perhaps a good thing for our national sanity that other things arise to divert our attention, if only momentary, from the worries of the great conflict.

As all work makes the proverbial Jack a dull boy, so our entire devotion to war topics would speedily upset the mental balance of the community.

MANY themes and hobbies offer distraction from the contemplation of current events. Some men find recreation in music, or gardening, or the sports field. Others turn to literature as a solace and stimulant.

In the business world men take an interest in little improvements which make for efficiency. They like to feel, and rightly, that progress is quietly and systematically pushing onward to the time when the business war shall supersede the war of arms.

Now we are going to ask Pharmacists to turn *their* attention to a new method of carding Combs, just introduced and provisionally patented by us.

Every Pharmacist is acquainted with the ordinary card and elastic affair. Immediately one comb is removed, the remainder become loose, and often fall out.

We have obviated this by the substitution of a neat paper strip to hold the combs in position.

By this means one comb may be detached without disturbing the others.

WE are applying this improvement to a new series of dust combs. They are put up in three colours: white, amber and black (four of each to card), and are non-inflammable.

The details are as follows:—

No. 22, assorted, 2/- doz.; No. 23, all white, 2/6 doz.; No. 24, larger, black and blond only, 2/3 doz.

The combs are strong and well finished, and put up on a neat card.

Capsule

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Cable Address— "MAGLAUR." New York City, U.S.A.

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ESSENTIAL OILS, VANILLA BEANS, DRUGS & CHEMICALS.

We offer for sale—

Oil Peppermint, American	Oil Sassafras, Natural
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" Birch (Wintergreen)	" Wormseed, Baltimore
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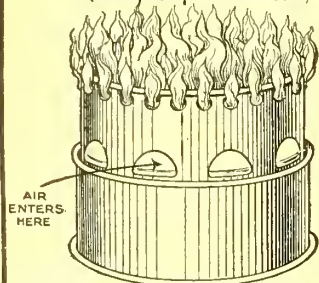
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SOUTHAMPTON

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The name "The PALS" is our registered trade mark.
The PALS Bottle or Pan rest is our registered design.

Solidified Spirit Pocket Stove for the "Pals" at the Front!

Hot water and food quickly and easily prepared by using "THE PALS" COOKER! Superior quality. Clean and powerful. A new design. Compact and handy. A welcome gift.

Far away the
BEST STOVE
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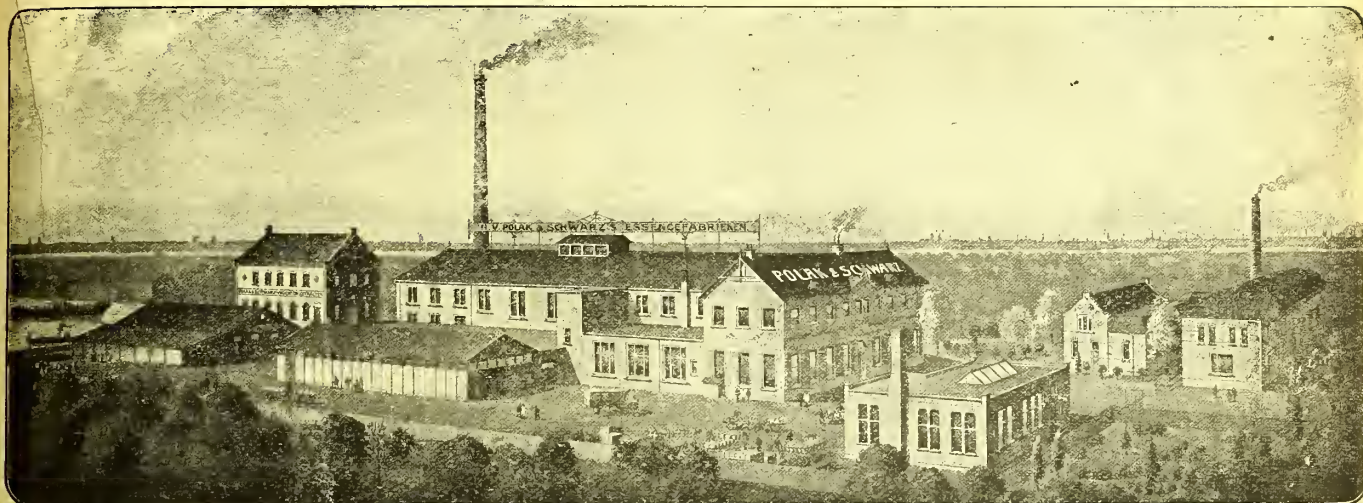
"The composition of this solid spirit is a new and exclusive preparation."

COMPLETE STOVE RETAILS at 1/- EACH.

REFILLS RETAIL AT 1/- and 2/- PER TIN.

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SOAP & CHEMICAL BOILING PANS
STEAM JACKETED PANS
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Nº 1 Plant for
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100 to 200 pounds per day

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MILLED TOILET SOAP PLANT.
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Nº 6 large combined triple
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12 inches long, 20 inches diameter.

Nº 8 mammoth plodder with reduction gear
for Motor drive. Output 3 tons per day.

Nº 6 Grant Bronze lined plodder.
Output 2 tons per day.

Toilet Bar
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or Shredder

Nº 6 Grant Quadruple Roller Mill.
Output 2 tons per day.

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may be used in conjunction with
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Output 3 tons per day.

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FOR PERFECTING EMULSIONS AFTER THEY
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AS USED BY MOST LEADING FIRMS

Price £27 10s. each.

A SIMILAR MACHINE, BUT FITTED WITH
SPECIAL BACK GEAR, RATIO 4 to 1, FOR
HOMOGENIZING VERY HEAVY EMULSIONS,

Price £37 10s. each.

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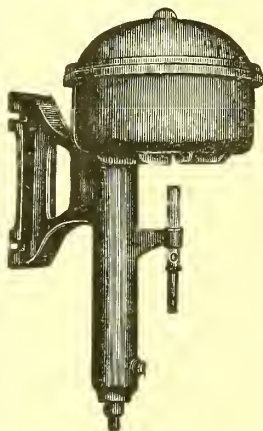
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STOKES' GAS-HEATED WATER STILL
will distil half to two-thirds of a gallon per hour.

NO LICENCE NECESSARY.



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**Most Economical &
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**Only requires Gas
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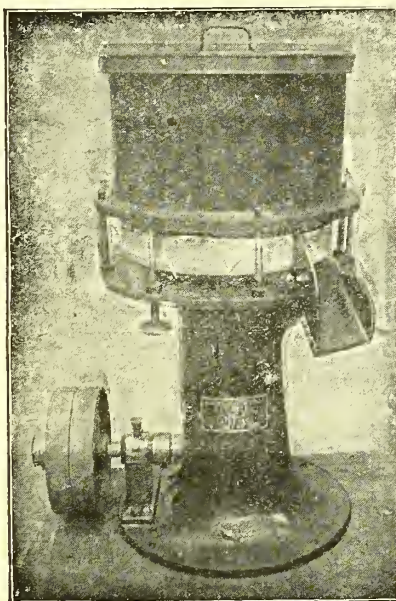
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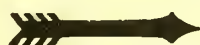
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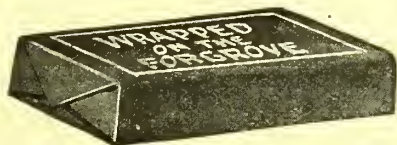
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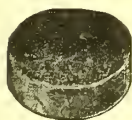


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3600

WRAPPED IN FOIL
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PER HOUR WITH
ONE OPERATOR.

SEND US YOUR SAMPLES.

THE FORGROVE MACHINERY CO., Ltd. DEWSBURY ROAD,
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HARVEY'S GREAT REMEDIES FOR THE HORSE WITH THE ADDED REMEDIES. (Protected Prices.)

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For Chronic Cough, Broken Wind, Roaring, &c.

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For Lymphangitis, or Weed, and Inflammations generally. In Tins, 5/- and 10/- each.

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In Tins 1/9 and 3/- each.

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HARVEY'S HAIR RESTORER (HUMAN).

A successful modification of the Veterinary Preparation. In Pots, 2/- each.

The REMEDIES may be obtained of all the leading Druggists' Sundries Houses.

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*Numbers 1 and 3 appeal to you, and
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"EXTIRMO" is on the P.A.T.A. List.

"EXTIRMO" kills and mummifies RATS, MICE, BEETLES and COCKROACHES and leaves no smell.

"EXTIRMO" does not require a Poison Book signature.

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"EXTIRMO" is used and approved by all the leading Medical Officers of Health.

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GREAT BRITAIN'S
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AMOUNTS TO OVER
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Authorities estimate that our yearly loss from the destruction to property caused by rats amounts to over fifteen million pounds sterling. A great loss! Yet "Rodine" would go a very long way to remedy this, and help our legislators. Will you push "Rodine?" It yields nearly 100 per cent. Profit.

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THE RAPID RAT REMOVER

CELTOL BRITISH MADE ANTISEPTIC & DISINFECTANT

Contains commercially pure Cresol in the same proportion as does Lysol. Soluble in water, giving a clear solution, uniform throughout.

CELTYL, Disinfectant Fluid, 18-20 Co-eff.

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THE WAR OFFICE HAS AUTHORISED
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NON-POISONOUS. NON-INFLAMMABLE. MIXES WITH WATER.

The efficacious preventative and remedy for Lice, Fleas and other vermin.

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Prices: 1 lb. Tins ... 1/- each ... 1/5 each } Post
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Complete Plant for all kinds of
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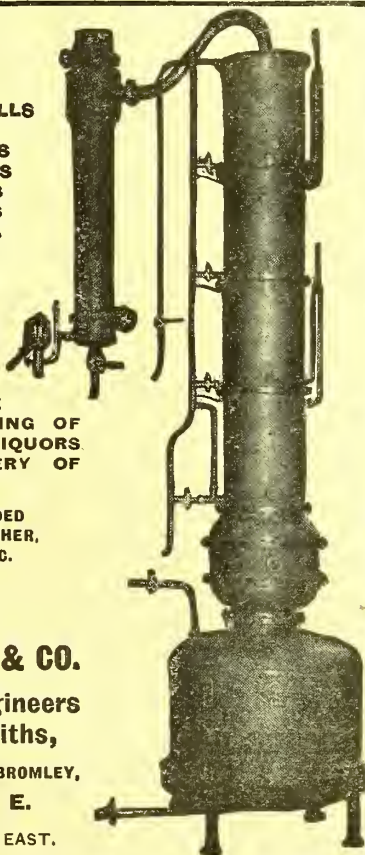
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EVERY one of your customers who
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The Radioba gives a Bath from
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even in the Trenches.

Send for trade terms, now and join
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Fixed Retail Price - £1/1/6

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ACTIVE
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Lofthouse & Saltmer, Ltd.

Wholesale and Export Drug Merchants,
— Manufacturing Chemists —

HULL

Regret that, owing to great increases in cost of ingre-
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		Protected Retail.	Dozen Net.
LOSALL'S SALT	- -	6d. tins	4/-
" "	- -	1/- "	8/-
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" BALLROOM FLOOR POLISH	1/- tins		7/6
" MILK FOOD (1/- tins)	10d. each		7/-
LOSALL'S SOAP	- -	4d. tabs.	8/6
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Chemists requiring effective advertising matter for
Losall's Salt, &c., will, on application direct to
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Dummies, Showcards, Window Slips, Price Tickets,
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PEARL & GELATINE COATED PILLS
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The New Non-Toxic Anti-Syphilitic Remedies

Introduced by MR. J. E. R. McDONAGH, F.R.C.S.

INTRAMINE

An organic amino compound of sulphur, administered by *intramuscular* injection. It is supplied in the form of a sterile cream ready for use.

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An organic amino compound of iron, administered by *intravenous* injection. It is supplied in aqueous solution, which is diluted with sterile distilled water before use.

The introduction of INTRAMINE and FERRIVINE marks a new era in the treatment of Syphilis. In the early stages of the disease Ferrivine is employed first and Intramine afterwards; in the recurrent and last stages of the disease Intramine is administered before Ferrivine.

INTRAMINE is supplied in ampoules, the contents of which measure 10 c.c., and contain 1 gram of pure Intramine, constituting one adult dose. Price 7/6 per ampoule, subject to trade discount.

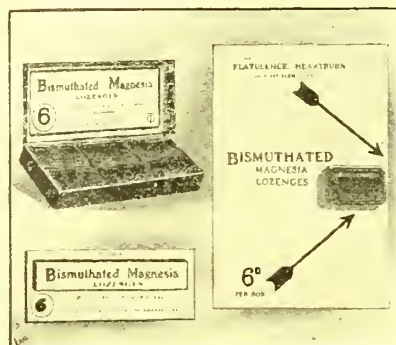
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BISMUTHATED MAGNESIA LOZENGES.

SPECIAL CASH OFFER.

FOR
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We will forward
6 doz. 6d. TINS,
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With Showcards.
Carriage Paid.
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Retailing at
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WRITE FOR SAMPLE
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PACKED and in BULK.

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THE MOST ECONOMICAL INFANTS' FOOD.



TOMMY'S COOKER.

A Marvel of Simplicity & Utility

Is the most welcome gift to soldiers in the trenches... Give him one before he leaves for the front... For preparing food out of doors it is perfection.

Used by the British, Belgian and French Army in the Field, and the Red Cross Society.

PRICE, 1/- REFILLS, 2/-

ADVANTAGES.—1. Wind does not blow it out. 2. Composition unaffected by weather or climate. 3. Stand carries heavy pots or pans.

Tommy's Cooker Co. Ltd.

Works: 31 Carharton St., London, W.

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"JOYBELLS" HONEY.

The choicest and most delicious Honey procurable. Screw-Top Glass Jars, 9s. 3d. and 5s. 6d. per doz.

"JOYBELLS" HONEY. Red Earthenware Pots, 8s. 9d. and 4s. 9d. per doz.; In Bulk, 7d. per lb. Tins charged and returnable. The Institute of Hygiene state—"We are satisfied that 'Joybells' Honey is a genuine product, possesses the distinctive flavour imparted to bee honey, and is a most pleasant and wholesome article for general table use."

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Equals that usually sold as Finest Clover Honey. Screw-Top Glass Jars, 8s. 3d. and 5s. per doz.; In Bulk, 6d. per lb.

"SWEET FLOWER BELL" HONEY.

Fine quality. Clean Flavour. Tie-Over Red Earthenware Pots, 6s. 6d. and 4s. 3d. per doz. In Bulk, 5d. per lb.

BEE SWAX. Choice quality, 1s. 8d. per lb.; 1oz. Moulds, 1s. 6d. per doz.

Carriage paid anywhere in England on Orders of £2 value. Samples 3d.

STANDARD HEALTH FOOD COMPANY

(With which is incorporated The Berkshire Honey Co.)

Honey Specialists, **READING, BERKS.**

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**CHAPOTEAUT'S
CAPSULES of
PHOSPHOGLYCERATE
of LIME.**

**THE BEST TONIC FOR
FORTIFYING AND BUILDING UP
THE NERVOUS SYSTEM.**

Sold by all Chemists.
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MORRHUOL CHAPOTEAUT



CAPSULES

MORRHUOL DE CHAPOTEAUT
is extracted from cod-liver oil, and
contains all its efficacious proper-
ties without the disagreeable taste.

*It cures Coughs, Bronchitis and Catarrh,
restores the appetite, and gives force to
feeble persons.*

SOLD BY ALL DRUGGISTS.

**CHANDRON'S
DROPS**

(Gouttes des Colonies)

**A harmless antiseptic
preventative against CHOLERA-
FERMENTATION - INDIGESTION
& other intestinal disturbances.**

SOLD BY ALL CHEMISTS



*I find the odor exquisite and
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by my name. Truly, superb,
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"SANOID" BORACIC SOCKS.

MANY Chemists
have enjoyed the
ready sale of
Boracic Socks,
which literally

**SELL
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NOW is the time
to order, so as to
enjoy a share of
these

**READY
SALES**

3/6 per dozen pairs.
SAMPLE ON APPLICATION.

CUXSON, GERRARD & CO., Ltd., OLDBURY.

The Original and only Genuine

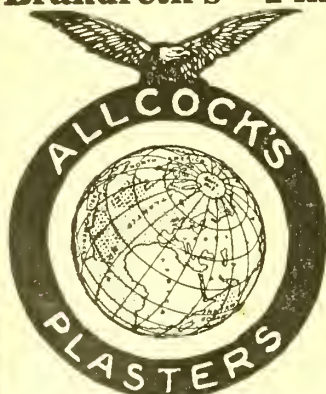
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POROUS PLASTERS

A REMEDY OF 60 YEARS' STANDING.

**Allcock's Plasters
Allcock's Corn and
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*The
Three
Reliables.*



"Sold all round the World."

ON P.A.T.A.
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Prices and Terms
on
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MANUFACTURING
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Radiozone (Oxygen) Baths

FOR the administration of Oxygen in a concentrated and highly nascent condition. Specially valuable in cardiac cases, with high arterial tension, in nervous and vaso-motor disturbances, insomnia, and auto-intoxication.

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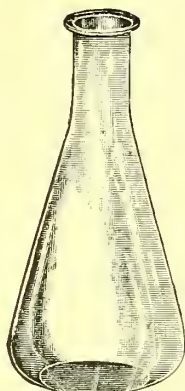
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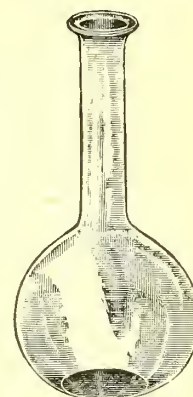
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“ 1 “ “ 3 dozen	19/3	“
“ 2 “ “ 1 “	38/-	“
Collapsible tubes, No. 1 size, 2/9.	No. 2 size, 5/6 doz.	
No. 1 size, bottle, in cardboard case	3/3	per doz.
“ 2 “ “ “	5/6	“
1/2 lb. tins, round	6/6	“
1 lb. “ square	10/6	“
5 lb. “ “	34/-	“
10 lb. “ “	5/8	per tin
25 lb. “ “	13/6	“
50 lb. “ “	26/-	“

WHITE.

Twopenny Tins (3 dozen in box)	13/6	per gross
Collapsible tubes, No. 1 size	3/6	per doz.
“ “ “ 2 “	5/6	“
Blue Seal, in bottle, carton	3/9	“
No. 1, 3 oz. size, in cartons	6/-	“
“ 2, 6 “ “	10/-	“
1/2 lb. tins, round	10/-	“
1 lb. “ square	17/-	“
5 lb. “ “	63/-	“
10 lb. “ “	10/-	per tin
25 lb. “ “	24/-	“
50 lb. “ “	46/-	“

RED or VETERINARY.

1/2 lb. tins, round	5/-	per doz.
1 lb. “ square	7/-	“
5 lb. “ “	24/-	“
10 lb. “ “	4/-	per tin
25 lb. “ “	8/-	“
50 lb. “ “	14/-	“

CARBOLATED - VETERINARY.

1 lb. tins	7/-	per doz.
5 lb. “	2/3	per tin
10 lb. “	4/6	“

COLD CREAM.

Twopenny tins (3 dozen in box)	16/-	per gross
Tubes, No. 1 size	5/-	per doz.
“ 2 “	8/6	“
No. 1 size, opal pot aluminium lid	3/6	“
“ 2 “	5/3	“
“ 3 “	8/6	“
“ 4 “ Artist's size	17/-	“
“ 5 “	8/6	“
“ 6 “	17/-	“

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“ 2 “ “	24/9	“

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Camphorated ... 6/6, 10/- “

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Blue Seal (boxes of 1 dozen)	5/6	“
No. 1 (bottle in carton)	8/6	“
“ 2 size, handsome bottle in carton, with glass stoppers	13/-	“

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No. 1 size	9/-	per doz.
“ 2 “	18/-	“

POMADE.

No. 1 size, in boxes of 1 gross	21/-	per gross
“ 1 “ “ 3 dozen	21/6	“
“ 2 “ “ 1 “	66/-	“
Collapsible Tubes...	3/-	per doz.
No. 1 size, bottle, in cardboard case	4/-	“
“ 2 “ “	8/-	“
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WHEN cost prices increase by a small amount it is not always desirable to increase the sale price at once, but it is necessary to know whether the effect is serious or unimportant. The following short cut will be found useful as a substitute for the rather tedious calculation usually employed:

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For example, suppose the cost price to increase by 1s. 3d., the selling price being 9s. An increase of 3d. on 9s. selling price will reduce the profit by $\frac{25}{9}$ per cent. But the total increase is 1s. 3d., or five times 3d. The loss of profit will therefore be $\frac{25 \times 5}{9}$ or $\frac{125}{9}$, which is nearly 14 per cent.

All this can be worked mentally after a very little practice.

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European War.

A Year Ago To-day.

(War News from the "C. & D.," March 20, 1915.)

Owing to the declaration by the German Government regarding merchant ships in British waters, the British Government decided to take steps to prevent commodities of any kind from reaching or leaving Germany. The Board of Trade also announced the steps taken to mitigate the effects of the shortage of indigo for dyeing purposes. The economic problems raised by the war were reviewed in connection with a publication of the Tariff Commission. Correspondents dealt with the situation as regards dispensing in the Royal Army Medical Corps.

Pharmaceutical Roll of Honour.

Non sibi sed patriæ.—CICERO.

SEVENTY-EIGHTH LIST.

THOMAS, JOHN R., chemist's assistant, Cardiff (son of Mr. W. Thomas, Llansaint), dispenser, R.A.M.C.

The following persons connected with pharmacy in Australia and New Zealand are serving with the Forces of the Commonwealth or the Dominion:

BLACKALL, H. M., chemist, Boggabri, N.S.W.

CATT, CLIVE (Elliott Bros., Ltd., Sydney), A.A.M.C.

DOYLE, ROY (Elliott Bros., Ltd., Sydney), A.A.M.C.

IRONSIDES, A. (assistant with Mr. W. Haslett, Wellington, N.Z.), N.Z. Expeditionary Force.

LANE, J. C., chemist, South Grafton, N.S.W., Hon. Lieutenant A.A.M.C.

PARKES, PERCY, chemist, Darling Point, N.S.W.

RAWSON, OLAF (son of Mr. C. N. Rawson, chemist, Richmond, Vic.).

ROYALL, S. H. (Elliott Bros., Ltd., Sydney), A.A.M.C.

WARD, O. D., chemist, Kurri Kurri.

Four Queensland pharmacists—Mr. S. Marris, Mr. M. J. English, Mr. T. H. McMullan, and Mr. A. E. Dimmock—are in training at Enoggera Camp.

Miscellaneous.

SWEDEN.—Boric acid and milk-powder were placed on the list of prohibited exports from March 1.

IMPORTS FROM ITALY.—The Board of Trade announce that certificates of non-enemy origin will from now onwards no longer be required on the importation of goods into the United Kingdom from Italy.

ENEMY PATENTS.—Patent 13955 of 1904, belonging to the Badische Anilin- und Soda-Fabrik, has been suspended, under the Patents, Designs, and Trade-marks (Temporary Rules) Acts, 1914, in favour of W. L. Ingle, Ltd.

SUGAR GOODS.—The Director of the War Trade Department has informed a firm of manufacturing chemists that the Department does not regard medicinal tablets containing a basis of 50 per cent. of sugar and upwards as within the prohibition on the export of sugar, so far as the sugar-content is concerned.

APPROVED CONSIGNEES IN CHINA.—The Hankow International Hospital; Dr. C. N. Hsiao (Union Dispensary), Tientsin; Kiangsu Chemical-works, Shanghai; Dr. K. H. Kwan, Tientsin; and the Seu Yin Sei Dispensary, Foochow, are among the names appearing in the "London Gazette" to whom articles may be exported to China.

ENEMY BUSINESSES IN EGYPT.—The Egyptian "Journal Officiel" publishes lists of persons, firms, and companies of enemy nationality, including their branches as defined by Article I. of the Proclamation of August 16, 1915, to whom licences to carry on trade have been issued. Three forms of licences are in use: (a) Licences to carry on trade without special restriction; (b) licences to trade in Egypt with the British Empire and with Allies of Great Britain; and (c) licences to trade for the purpose of liquidation only.

BELGIAN DOCTORS' AND PHARMACISTS' RELIEF FUND.—The following subscriptions have been received since the last list published: J. W. Bygott, 5s.; M. E. Morris, 5s. Collected from the following members of the Brighton and Hove Association of Pharmacy, per E. A. Jones: F. J. Flatman, 10s. 6d.; Edgar Jones, 10s. 6d.; J. K. Padwick, 10s. 6d.; J. Plowright, 10s. 6d.; Savage & Co., 10s. 6d.; F. W. Sadler, 10s.; C. Beckwith, 5s.; F. G. Cashmore, 5s.; W. J. Davies, 5s.; Milner Black, 2s. 6d.; J. W. Chaplin, 2s. 6d.; F. W. Fowles, 2s. 6d.; C. Blamey, 2s. 6d.—total, 4l. 17s. 6d.

Local Tribunals' Decisions.

THE following are some of the cases of trade interest that have been reported to us since our last issue:

AUDLEY (STAFFS).—The appeal of a chemist's assistant, who said he objected to fighting in any capacity, was refused.

BATTERSEA.—A chemist and druggist, who asked for exemption for his son, said he had spent 4*l.* in advertising for an assistant without result. He has one son already in the Army. The application was refused.

BERMONDSEY.—Mr. John Edwards, chemist and druggist, employed by Mr. Robert Blackie, Jamaica Road, Bermondsey, appealed for exemption on the ground that he is engaged in a certified occupation. He was granted exemption so long as he remained in his present employment. A lady member of the Tribunal strongly protested against the decision, on the ground that there are heaps of lady dispensers available.—William Harold Cockett, an assistant to a firm of wholesale manufacturing chemists, desired exemption on the ground that he was in a starved trade and also a conscientious objector. Exemption was granted, as applicant is engaged in a certified occupation.

BLACKPOOL.—On March 9, a chemist, who appealed for exemption the previous week and was advised to go on the panel, when he would be exempt, appeared. He stated that he is now on the panel, and exemption was granted.—A chemist's manager in a business which does Insurance dispensing was also granted exemption.

BRECON.—A chemist, who has a dispensing contract with the local barracks, applied for temporary exemption for a dispenser, who relieves him in his occupation when his health does not allow him to do the work himself. A month's exemption was granted.

CHATHAM.—On March 8, two months' exemption was granted to Ernest Wm. Vine, chemist's assistant.

CHELTENHAM.—On March 9, a firm of chemists asked for exemption for a dispenser who had been passed as fit for a sedentary occupation. Three months' exemption was granted.—Another dispenser was exempted as being engaged in a certified occupation. He dispensed under the National Insurance Act for a doctor with a large panel practice.

CHESTERFIELD.—A chemist's assistant, whose claim for exemption had been refused by the Local Tribunal on the ground that his principal or usual occupation was not that of a chemist dispensing under the National Insurance Act, appealed against that decision. He said he is the only dispenser engaged as such in the shop, which has a turnover of 8,000*l.* per annum. In reply to the Military Representative, he said the manager is a qualified dispenser, but is not able to undertake the dispensing in addition to his present duties. On the appeal being rejected, appellant complained that he was misdirected to lodge a personal claim, whereas his employers would have claimed for him, and had, in fact, sent a certificate to the Local Tribunal.

COLCHESTER.—Mr. E. H. G. Bennett, chemist and druggist, was granted exemption from military service so long as he is engaged in dispensing under the National Insurance Acts.

CREWE.—On March 9, a chemist employed by a panel pharmacist asked for exemption. It was stated that two months ago he succeeded an assistant who had entered the Army. The appeal was rejected.

CROMER.—On March 13, a chemist, single and attested, who manages his widowed mother's business, told the Tribunal there is no other qualified man in the shop, and he is also radiographer at the Cottage Hospital. Exemption was granted.

DARTFORD.—On March 7, an appeal for exemption entered by Mr. A. H. G. Weeks, chemist and druggist, 157 Fulwich Road, was struck out, as his name has been starred.

DERBY.—On March 9, the Military Representative appealed against exemption granted by the Local Tribunal to a Whittington chemist on the ground that there is another chemist in the township, and the claimant would be more usefully employed in dispensing in the Army. The chemist stated that he makes up over 6,000 prescriptions per annum for insured persons and 130 per month gratis for soldiers' dependants, in addition to which he compounds a number of private prescriptions. The appeal was disallowed.

DONCASTER.—On March 9, a local chemist applied for exemption for an assistant and an apprentice, as both are Insurance dispensers. Both appeals were refused.—On March 11, an Askern druggist, who said he was not a qualified chemist, was granted exemption. He had kept a qualified chemist until a few days ago. He dispenses under the National Insurance Act, and in the absence of a dis-

penser the dispensing of medicines containing poison is done by a local medical man. He said he could not keep open his shop unless he has a qualified chemist.

DUDLEY.—Exemption was applied for by a local firm of wholesale chemists for a member of the firm who is studying chemistry and was an analytical chemist. The application was refused.

EASTBOURNE.—On March 13, a chemist who is in indifferent health applied for exemption for his assistant, who will be forty-one next August. A large amount of Insurance dispensing is done. Conditional exemption was granted.

ENFIELD.—The directors of a local drug-store applied for exemption on behalf of an assistant who dispenses under the National Insurance Act. The manager, who is a qualified chemist, said that it is absolutely impossible to get a substitute. Exemption was granted.

EVESHAM.—Mr. H. A. Elliott, chemist and druggist, appealed for exemption for his assistant, G. C. Anderson. The Military Representative opposed the application on the ground that Mr. Elliott was not on the panel. Two months' exemption was granted.

FALKIRK.—On March 10, a month's exemption was granted to a chemist who dispenses under the National Insurance Act. It has been impossible, said the applicant, to obtain a qualified assistant to take his place in the business.

GILLINGHAM (KENT).—Two months' exemption was granted to H. E. Harron, a pharmacy student.

GRAYS.—On March 8, exemption was refused to a chemist's assistant, who claimed to be engaged in a certified occupation. Applicant said he is not qualified, but dispenses when the manager, a registered chemist, is away.

GREENOCK.—On March 10 a chemist's assistant applied for exemption on conscientious grounds. He was sent to non-combatant service with the army.

HURST (LANCS).—Provisional exemption was granted to Mr. Alfred Marsland, chemist and druggist, 160 Curzon Road.

LEIGH.—A chemist's dispenser applied for conditional exemption, stating that he had secured a position as orderly in a Red Cross hospital. He had been passed for home service in the Army, and if he could undertake the orderly's duties in the hospital he would be able to continue his studies for the examination in June. Two months' exemption was granted.

LINLITHGOW.—Mr. W. W. Spence, chemist and druggist, was granted exemption for three months as a chemist dispensing for insured persons. It was stated that Mr. Spence has three sisters qualified to look after the business.

LONDON (CITY).—A firm importing benedictine contended, on behalf of a man appealed for, that benedictine is "a semi-pharmaceutical product," useful in the early stages of cholera. Exemption was refused.

MALVERN.—On March 6, a chemist applied for exemption for two qualified dispensers, stating that two other assistants had enlisted, and that he supplied drugs to the local military and other hospitals. Conditional exemption was granted in one case, but exemption was refused in the other case.

MARLOW.—On March 8, exemption was granted Mr. E. G. Martin, chemist and druggist, who is on the Insurance panel.

MIDDLEWICH.—Exemption was sought for a chemist's apprentice, who will be nineteen in May and will complete a three years' apprenticeship in September. The recruiting officer thought it would be a hardship on the young man if he were not granted temporary exemption to enable him to go in for his examination. Temporary exemption was granted until May, and the Pharmaceutical Society is to be communicated with as to how military service and the temporary cessation of the youth's studies will affect his chances of becoming a pharmacist.

MOSSLEY (LANCS).—Exemption was granted to the only chemist at Micklehurst who is on the panel, and conditional exemption to Mr. F. G. Boden, chemist and druggist, Mossley.

NEWPORT (ISLE OF WIGHT).—Frederick Thomas Webb, chemist's assistant, Colwell, applied for temporary exemption on the ground that his employer, Mr. F. G. Knight, is not able to replace him. Exemption was granted for a month.

NUNEATON.—On March 3, a chemist's assistant dispensing under the panel applied for conditional exemption. He was allowed two months' exemption.—Exemption was refused to a chemist's warehouseman and storekeeper, who claimed to be indispensable.

OTTERY ST. MARY.—On March 7, Mr. Wm. Digby Badcock, in business with his father, and a panel dispenser, applied for exemption. He stated that the firm employed a qualified chemist aged sixty-five, and that he would not object to service if he could be spared from the business. He was granted exemption for a month.

PONTEFRAC.—On March 6, Mr. A. Collins, chemist and druggist, applied for exemption for his assistant, H. A. Brough, who dispenses about 600 prescriptions per month. Conditional exemption was granted. Mr. Collins backed up his argument by quoting the reports of Local Tribunals' decisions given in *THE CHEMIST AND DRUGGIST*.

REIGATE.—On March 8, conditional exemption was granted to Mr. T. Mitchell Elford, chemist and druggist.

ROCHDALE.—On March 6, Mr. J. R. Smalley, chemist and druggist, applied for exemption for his assistant, Wm. Murphy, and Mr. Jas. Kershaw, chemist and druggist, for Arthur E. Holden. Both appeals were refused.

ROSS (HEREFORDSHIRE).—On March 6, temporary exemption was granted to a chemist's assistant to allow him to sit for his Preliminary examination in April.

ROTHERHAM.—On March 9, a dispenser with a local chemist claimed exemption. His employer said that a woman was being taught, but it is necessary to keep the business going. A month's exemption was granted.

ROYTON.—Conditional exemption was granted to a panel chemist who is in business for himself. He stated that if he had to go on military service his business would have to be closed.

SANDOWN.—Mr. Leonard T. Salt, Ph.C., supplying medicines under the National Insurance Act, applied for exemption. It was explained that the occupation in which the applicant was engaged was a certified one. Exemption was granted.

SOUTHWARK.—William Toogood, Ltd., 77 Southwark Street, S.E., appealed for the exemption of an employe engaged as a medicine-chest and ambulance-case fitter. The company is a contractor to the War Office for ambulance and first-aid cases, upon which the employe is engaged. The Mayor said the man would be of good service to the R.A.M.C. The application was refused.—Mr. A. E. Ibbis, employed as foreman in the despatch-department of Boots, Ltd., appealed for exemption on the grounds that his present work is in the national interest, and that his departure would inflict serious hardships on his sisters. He was given six months' exemption.

TAUNTON.—On March 6, Boots, Ltd., applied for exemption for Gwyllim Henry, an assistant, who claimed to be a "starred" man. The appeal was refused in order that a claim might be made from the head office in Nottingham.

TEWKESBURY.—A chemist's pupil applied for exemption until he had fulfilled the terms of his indentures, which expire in 1917. Applicant was willing to go into the R.A.M.C. as a dispenser so as not to lose ground in the profession he had entered. Exemption was granted until March 31.

TONBRIDGE.—On March 4, H. S. L. Coleman, assistant to Mr. Clarke, chemist and druggist, claimed exemption as being indispensable to the business and because he is medically unfit. On the latter ground the claim was allowed. For the same reason exemption was granted to Stephen Bromley Johnson, apprentice to Mr. Clarke.

TORQUAY.—A chemist's assistant appealed. Besides being occupied in dispensing, he develops x-ray plates for the military hospital, of which his employer is radiographer. Exemption was granted until August 23.

TUNBRIDGE WELLS.—On March 9, Mr. W. A. Phillips, chemist and druggist, applied for exemption for Mr. A. L. Thorne, chemist and druggist, employed at 71 Camden Road, and who dispenses Insurance prescriptions. Applicant, who has two businesses, has been unable to replace Mr. Thorne. Conditional exemption was granted.—Mr. A. E. Hobbs, Ph.C., applied for the exemption of two assistants, R. A. Porter and J. Aspell, chemist and druggist. Conditional exemption was granted.—Mr. H. R. Fawcett, chemist and druggist, was also granted conditional exemption.

WATFORD.—Conditional exemption was granted to Donald Henry Richardson, studying to qualify as a chemist.

WEST HAM.—An application was made for the exemption of an assistant with Parke's Drug Stores, Ltd., who dispenses under the National Insurance Act. The appeal was refused.

WINCHESTER.—On March 7, exemption for one month was granted to a chemist's son who is engaged in dispensing for public bodies. He dispensed 1,309 prescriptions last year for the Insurance Committee.—In another case of a chemist's assistant engaged in Insurance dispensing exemption was refused.

WORTHING.—On March 13, a chemist in partnership with another chemist, who is seventy-six years of age, was granted conditional exemption as he is an Insurance dispenser.

WREXHAM.—A chemist was granted three months' exemption for his only male assistant, who is a dispenser under the National Insurance Act, and who is the only person he could leave in charge of the shop.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Birmingham.

Councillor Poole, chemist and druggist, has joined the local military Tribunal.

The Corporation has distributed a handbill warning parents that measles and German measles are notifiable diseases. There is a penalty for failing to report cases at once, states the bill.

Dr. Coole Kneale, who is lecturer on materia medica and pharmacy at the University, has taken rooms in Broad Street in order to practise tonic medical treatment. He was formerly a pharmacist.

"The Southern Cross" for March, the organ of the 1st Southern General Hospital, Birmingham, contains a good portrait of Lieutenant and Quartermaster E. C. Bennison, R.A.M.C., Ph.C.

Serious losses owing to disease among bees have occurred in Staffordshire. Despite all efforts 104 apiaries have been lost, and the stock which has died from nosema apis is 432. The Board of Agriculture is experimenting with a reputed cure for the disease, and will make it public if it proves on experiment to be successful.

Liverpool.

To meet Mr. James Tate, President of the Pharmaceutical Society of Ireland, on his visit on March 15, to address the Liverpool C.A. on "Chemists, Wake Up!" the President (Mr. William P. Evans) invited to dinner, at the Fenwick Club, Mr. J. Rymer Young (Warrington), Mr. W. J. Shephard (Chester), Mr. C. Cooling (Birkenhead), Mr. John Bain, Mr. Prosper Marsden, and Mr. D. H. Evans (Hon. Secretary of the Liverpool Chemists' Association).

Sheffield.

Mr. Job Preston, a firm believer in public poster advertising, has one out now with red letters on white ground advertising chilblain-application.

The further restriction of shop-lighting has resulted in extinguishing window-lights altogether in the centre of the city, in order to keep out of the police courts.

Mr. Chas. Haydn Hallatt, chemist and druggist, has taken over the business of Mr. T. Marples, Attercliffe Common. Mr. Hallatt served his apprenticeship with Mr. Norwood, Ph.C., Wath-upon-Deane, and acted as assistant to Mr. H. G. Williams, Sheffield.

Mr. T. Marples is retiring from business, and intends occupying his time on his farm at Baslow, Derbyshire. He was for some years Divisional Secretary of the Pharmaceutical Society for the Attercliffe Division of Sheffield.

Members of the craft who are receiving notice to join the Colours should appeal immediately, and it is likely that the hearing will be temporarily adjourned until some decision has been arrived at by the Joint Insurance and Pharmaceutical Committee and the Military Representative.

The application by the City Council for the general closing of shops under the Shops Act has brought forth a storm of opposition. The chemists were one of the first trades to ask for compulsory closing, and the fear was expressed that the small general shops who retail drugs in working-class districts would oppose the granting of the Order. Opposition from this quarter has now been lodged.

London Fair and Market.

The first London Fair and Market was opened at the Agricultural Hall on Tuesday, and will remain open until Friday, March 24. This new Fair is intended to replace the famous Leipzig one, and is being held under the auspices of the Federation of Foreign Chambers of Commerce in the United Kingdom, including the Chambers of France, Italy, Netherlands, Sweden, Portugal, Belgium, etc. Admission is by ticket only, and is restricted to merchants and traders. The original project was to get together a much larger show than the one just opened, but Government requirements prevented the full scheme from being carried out. Nevertheless, the Exhibition is an important one, although confined chiefly to fancy goods, tobaccoconists' supplies, leather articles, toys, games, household commodities, furnishing and furniture, stationery, printing, etc. There are between 300 and 400 exhibitors, and during a glance round by a C. & D. representative on the opening day the impression was gained that a good deal of business will result, as this is the period when orders are placed by British and other dealers who were accustomed to attend the Leipzig Fair. There is little, however, of direct drug-trade interest to note. The only representative of the perfume and toilet trade exhibiting is the firm of

Francis Drake & Co., 1 Eden Street, Hampstead Road, London, N.W., who have a large and attractive exhibit devoted to choice perfumery, bath tablets and crystals, eau de Cologne, etc. This firm have developed a considerable export trade, and make a special study of foreign markets. They are out to capture German trade, and have already had successful results. D. Harper & Co., Ltd., 258-262 Holloway Road, London, N., have an exhibit at which their shaving-outfit advertised in this journal can be seen. Their reversible Treasury-note cases and other lines suitable for chemists are also on show. J. Davies & Co., 43 Basinghall Street, London, E.C., show their "Glossolar" gold paint of British make, bronze powders of various shades, razor-strops, shaving-brushes, "Staneglas" window-transparencies, etc. Little Kitchener Co., 11, 12, and 13 Gilbert Street, Bloomsbury, W.C., show their solidified-fuel cookers; and Tommy's Cooker Co., Ltd., 31 Carburton Street, London, W., show Tommy's cookers, pocket-stoves, etc. Raphael Tuck & Son, Ltd., Moorfields, E.C., have a similar exhibit to the one shown at the British Industries Fair; and Venesta, Ltd., 1 Great Tower Street, E.C., show samples of their "Venesta" boxes, barrels, trays, etc. Thermos, Ltd., 8 Long Lane, London, E.C., show their original Thermos flasks; and James Pascall, Ltd., 100 Blackfriars Road, London, S.E., exhibit parlour confectionery stoves and many examples of goods made in chocolate. Although mostly British goods are shown at the Fair, the exhibition is not to be confined to their sale alone; our Allies and neutrals have been invited to co-operate, and next year a much greater response from these sources is expected.

Miscellaneous.

POISON-LICENCES.—Thomas Pape, Market Place, Pickering (Yorks), has applied to the County Council for a poison-licence.

WINE AND SPIRIT LICENCES.—Mr. F. J. Oliver, chemist and druggist, Maidstone, has been granted a licence to sell spirits of wine to medical men, chemists, and hospitals.

"TRADE AFTER THE WAR" was the title of an address delivered before the Column Club, Manchester, on March 6, by Mr. W. H. Veno, managing director of the Veno Drug Co., Ltd.

ANILINE DYES.—"The Times" states that an important discovery has been made at the works of James Robinson & Co., Ltd., Huddersfield, in connection with the manufacture of aniline dyes.

FIRE.—A fire occurred on March 10 at the premises of W. Vernon & Sons, surgical-dressing manufacturers, North Road, Preston, but was extinguished before much damage had been caused.

DYEING CHEMISTRY is to be a special subject at the Huddersfield Technical College, so that trained chemists will be forthcoming to meet the needs of British Dyes, Ltd. The chemistry department at the College is to be extended.

THE SPECTACLE-MAKERS' COMPANY has arranged free short courses of instruction in spectacle-fitting and sight-testing for the benefit of assistants or relatives of diplomates who have been called to the Colours, so as to avoid closing optical businesses.

BOTTLE-DUTY WANTED.—A meeting of bottle-makers was held at the Great Eastern Hotel, London, on March 15, to consider the suggested imposition of a 5-per-cent. duty on imported bottles. A Committee was appointed to consider the matter further.

MR. A. MOWBRAY UPTON, who was charged at the Mansion House on March 11 with fraudulently converting clients' money to his own use, is known to chemists on account of his activities as Clerk of the Society of Apothecaries on behalf of apothecaries' assistants.

A MISCHIEVOUS MESSENGER.—At Bradford, on March 14, a boy employed in the evening as an errand-boy at a chemist's was, with another boy, fined 10s. for setting a doormat on fire. He employed for the purpose phosphorus, which he obtained from his master's shop.

ALTERING EXPORT LICENCES.—The case against George Colverd, of the Molassine Co., Ltd., East Greenwich, charged with altering an export licence (see *C. & D.*, March 4, p. 41), was heard at the Central Criminal Court, London, on March 9. A fine of 50*l.* was imposed.

EXCLUDING THE ENEMY.—At a meeting of the Council of the London Chamber of Commerce on March 10, it was unanimously agreed that no German or Austrian born subject, naturalised or not, should be eligible for election as a member of the Chamber until otherwise determined by the Council.

CEREBRO-SPINAL FEVER.—A report on the bacteriology of this disease, which was epidemic in 1915, has been issued by the Medical Research Committee. A general conclusion

arrived at is that the epidemic was not one of cerebro-spinal fever as such, but was an epidemic of the meningococcus in the throats of the population at large.

SHOPS ACT.—Hastings chemists have been exempted from the necessity for half-holiday closing from June 6 to September 12, and from November 28 to December 19.—Cradley Heath and Old Hill chemists are to close by an Order at 8.30 on Monday, 8 on Tuesday and Wednesday, 1 on Thursday, 9 on Friday, and 11 on Saturday.

A SHOWCASE COLLAPSE.—At the Brighton County Court on March 9, judgment was given in the case of Jones v. Carwardine, Ltd. (see *C. & D.*, March 11, p. 62), in which a claim was made for damages and personal injuries resulting from the collapse of a large showcase. Judgment was given for the plaintiff for 10*l.* 10s. for personal injury and 15*l.* 15s. damages to the case.

LIGHTING REGULATIONS.—At Cirencester on March 13, Mr. Waldron Griffiths, Ph.C., was fined 10*l.* for a breach of the Lighting Regulations.—Mr. J. B. Blakemore, chemist and druggist, Smethwick, was on March 9 fined six guineas for an infringement of the Lighting Order. It was stated that the show carboys in the window intensified the light, which was reflected into the street.

PHARMACEUTICAL COUNCIL ELECTION.—Mr. G. A. Tocher is Secretary of a Committee that has been formed to promote the return of Mr. J. W. Deakin, 40 Winton Street, Northwich, and Mr. Herbert Skinner, 16 Priory Gardens, Highgate, as members of the Council of the Pharmaceutical Society. Associations to whom a circular is being sent are asked to subscribe towards the election expenses.

ENEMY FIRMS.—Lists in the "Gazette" of twenty-one enemy firms and companies whose businesses are to be wound up under the Trading with the Enemy Act includes the names of the New York Hamburg India Rubber Co., Ltd., 89-90 Milton Street, London, E.C.; Wagner Bros., surgical-instrument makers, 4-5 Stonecutter Street, London, E.C.; the Hanover Rubber Co., 105 Goswell Road, London, E.C.; and Chemical-works, late H. & E. Albert, 15 Philpot Lane, London, E.C.

ANALYSTS' REPORTS.—Mr. J. F. Liverseege, the Birmingham analyst, mentions in his report that of twenty Insurance prescriptions (containing a mixture and a paint) sent to chemists to be dispensed, eighteen samples of mixture were not properly dispensed, and eleven samples of iodine paint were not satisfactory. Of other drugs sampled the following were unsatisfactory: Light magnesia, ferric-chloride solution, menthol-cone, and saffron.—The public analyst for Bristol last year examined thirty-six samples of drugs, but none was condemned.

DRUG CONTRACTS.—The Eton Board of Guardians are to continue the drug contract with Griffith & Walden for a further six months.—The Hemel Hempstead Guardians have accepted the tender of Mr. F. Chapman for surgical dressings.—The Yarmouth Guardians have accepted the tender of Mr. T. J. Woodcock, chemist and druggist, for cod-liver oil at 13*s.* per gal. and 2*s.* 4*d.* per pint; Howards' quinine, 4*s.* 6*d.* per oz.; crushed linseed-meal, 2*s.* per cwt.; olive oil, 7*s.* per gal.; trusses, 1*s.* 6*d.* and 2*s.*; and drugs at the net prices of The British Drug Houses, Ltd.

POISONINGS.—Four cases of poisoning have been reported since our last issue. A Teddington lady committed suicide by means of chloroform, which she obtained from Mr. T. R. Hayton, chemist and druggist, under the plea that she required it for the purpose of poisoning a cat.—A Widnes servant-girl poisoned herself with salts of lemon.—A Grimsby man took an ounce of laudanum and then hanged himself.—A woman at Ipswich committed suicide with strychnine vermin-killer, which she obtained from Mr. J. C. Wiggins, Ph.C., who in the sale carried out all the formalities of the Pharmacy Acts.

CREDITORS' MEETING.—The creditors of Mr. Clement Kitchen, chemist and druggist, High Street, Winsford, met on March 5. A statement of affairs was submitted showing liabilities amounting to 603*l.* 13*s.* 3*d.*, and assets valued at 135*l.* 7*s.* 5*d.*, a deficiency of 467*l.* 5*s.* 10*d.* Debtor started business eight years ago with a capital of 170*l.*, and had been losing money ever since. It was decided that a deed of assignment should be executed to Mr. Parkin S. Booth, 2 Bixteth Street, Liverpool, as trustee. Among creditors are the following: Harkness, Beaumont & Co., Edinburgh, 14*l.*; Corbyn Stacey & Co., Ltd., London, 18*l.*; Evans Sons Lescher & Webb, Ltd., Liverpool, 12*l.*; Hough, Hoseason & Co., Manchester, 12*l.*; T. Kerfoot & Co., Bardsley, 10*l.*

MEDICAL STUDENTS.—The number of first-year medical students (enrolled in 1915) who were actually attending in January is stated by the General Medical Council to be 1,626. The number of second-year students is 1,020. These include women students and foreign and Colonial students.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Edinburgh.

On and after March 20 Edinburgh pharmacies are to close at 8 P.M., except on Saturdays.

Mr. W. C. D. Robertson, chemist and druggist, is giving up his branch business at 57 High Street, Tranent, and the fittings and stock are being sold by auction on March 17.

Jena glass for chemical glassware and lenses is being made by John Moncrieff, Ltd., at the North British Glass-works, Perth, and also at the Edinburgh and Leith Glass-works, Norton Park, Edinburgh.

Dr. A. C. Cumming, Lecturer in Chemistry at the University, gave an address at the Morningside Church Hall, on March 6, on the poisonous gases introduced in warfare by the Germans. German cleverness has been much overrated, he said.

Miss Margaret G. Boag, chemist and druggist, has been appointed by Harkness, Beaumont & Co., wholesale druggists, Junction Bridge, as their travelling representative for the city and surrounding district, the firm's regular representative, Mr. A. V. Hourston, being still in France on active service. Miss Boag comes from the West Country, and served her apprenticeship with Semple & Smart, Port Glasgow.

Glasgow and the West.

March has so far been one of the best months for business this winter. Influenza and allied troubles are rampant.

The new hospital ship *St. Margaret of Scotland* is open to the public until the end of the week. Lady Beatty performed the opening ceremony on March 9.

Qualified women chemists and men over military age are not to be had. The reason is that practically every qualified chemist is in business for himself long before the age of forty-one.

The question of maintaining a sufficient number of chemists for insurance dispensing was raised at a meeting of the Insurance Committee on March 8 as the result of a communication from the Pharmaceutical Standing Committee of Scotland.

Much feeling is expressed upon the regulations affecting the position of chemists as regards enlistment. It is claimed that no other certified occupation is more necessary for the nation than that of the chemist and druggist, and it is hoped that satisfactory arrangements will be made to exempt all proprietors and qualified branch managers.

The windows of Glasgow chemists and druggists are a pleasing study, and there are only very few who do not utilise this method of making their goods known to the public. The following are notes made by our correspondent at the beginning of the month:

Mr. Wm. Thomson, Byres Road, has a selection of toilet articles and Thermogene.

Mr. F. MacMaster, Partick, shows Ayerton's specialities for the trenches. A feature is the "Nutshell Canteen" for soldiers.

Mr. Wm. L. Currie, Byres Road, shows Euthymol tooth-paste and Kruschen salts. He still retains carboys and spec-jar in his windows.

Mr. Peter Ferguson has a display of malt and cod-liver oil, with showcards depicting a seascape and a harvest-field. Angier's Emulsion and Virol are also shown.

The pharmacy of John Millar, Byres Road, is conspicuous on account of the half-dozen large swan-neck carboys in the three windows. Toilet articles are displayed.

Dun's Drug-stores and Anderson's Apothecaries' Hall has the sole announcement "Advice free on all diseases," while other windows are filled with cod-liver oil emulsion and Virol.

Mr. W. N. Stewart's windows are attractively arranged with Kerfoot's Mineral Spring Health Granules and a cough-balm, whose virtues are made known by means of a miniature black-board.

Mr. A. G. Sutherland.—The feature of this window is a handsome Vinolia display, with 4-inch lettering shaded in royal purple. The second window has a show of Thermogene, Euthymol tooth-paste, and malt extract.

Mr. James Manuel has a display of Nupines, with a nice series of tickets giving the names and habitats of the ingredients—e.g., pine oil comes from Tyrol. No. 2 window carries an excellent Erasmus display.

In the window of W. B. Hilliard & Co., surgical-instrument dealers, Hope Street, is exhibited an original Lister's carbolic-spray; also Dr. Livingstone's pocket medicine-case, carried by the famous traveller until his death at Ulula, Africa, 1872.

"SIMPSON LIGHT" should be called the Simpson tungsten arc, writes Dr. F. Hernaman Johnson in "The Lancet" (L, 1916, 587).

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Pharmaceutical Society of Ireland.

The latest dates for lodging applications for the April examinations are as follows: Thursday, March 23, for Preliminary examination; Tuesday, March 28, for Registered Druggist examination; Wednesday, March 29, for Pharmaceutical Licence examination; Monday, April 3, for Pharmaceutical Assistant examination. Applications should be lodged with the Registrar by 11 A.M. on the respective dates.

Brevities.

Sir W. Baxter, D.L., Ph.C., Coleraine, has been elected President of the Coleraine Agricultural Association.

The Local Government Board has declined to approve of the salary of 18*l.* proposed to be paid to the analyst by the Westport Board of Guardians, as it is more than the rate of 6*s.* per sample.

Mr. Charles McMullan, F.I.C., Belfast, has written to the Newry Guardians intimating that he cannot accept the increased salary of 25*l.* offered him by the Guardians as drug-analyst. The Guardians have now made an offer of 27*l.*

At a meeting of the Tyrone County Council on March 13, Mr. Robert F. Blake, Belfast, county analyst, applied for an increase of salary on account of extra expenses and extra work. A minimum salary of 150*l.* for the analysis of 500 samples, and 5*s.* per sample above that number was fixed.

The Local Government Board have instructed the Ballinrobe Guardians to refer an unfavourable report by the analyst regarding a certain drug to the contractors, with a view to the article being replaced. Dr. Daly reported that it is possible the sample sent to the analyst was taken from an old supply. The Local Government Board complained of the excessive cost of medicines, having regard to the number of patients treated; but the reply of the dispensary doctors was that a number of patients were treated who had no tickets except when they first presented themselves.

French News.

(From the "C. & D." Paris Correspondent.)

A DENTAL MOTOR-CAR, designed by Dr. Gaumerais, is the latest addition to French Army equipment, and during one month it has been the scene of 1,800 operations, without reckoning the preparation of thirty-six sets of teeth, fourteen repairs of teeth, fourteen repair pieces, and thirteen repairs to existing sets.

PHARMACIST-AVIATORS.—A number of French pharmacists are serving as aviators. M. Fulgence Lorca, who before the war kept open shop at Oran (Algeria), is a sergeant-pilot of Air Squadron C27, and has been cited in Orders of the Day for his bravery. The Oran pharmacist M. André Fournier, an assistant-pharmacist-major, was serving as a lieutenant airman at the Pau School of Military Aviators, when he made an unlucky fall and succumbed to the injuries he received.

REVIEW OF PHARMACY LEGISLATION.—M. Marc Honorat, lecturer on pharmacy laws and regulations at the Paris School of Pharmacy, states that pharmacy law differs from all other French law—firstly, as a special *régime* framed for a special profession; and, secondly, as having passed practically unchanged through the fiery furnace of the Revolution. In fact, Carret, when presenting the existing Law of Germinal to the Corps Législatif in 1803, said, "Such are, Citizens Tribunes, the provisions of the law, which reform rather than alter this part of our legislation."

THE LEGION OF HONOUR.—Among the new officers of the Legion of Honour are several army pharmacists—Principal-pharmacists Remy, No. 37 Temporary Hospital; Brunat, No. 14 Hospital (Nice); Ricard, the Degenettes Hospital, Lyons; and Allain, the Dey's Hospital at Algiers. M. Licardy, the Reserve Store of Medicaments, also receives the red rosette. Among the new Chevaliers is M. Pierre Bréteau, well known in Paris as an ex-professor at Val-de-Grâce and a member of the Society of Pharmacy, who was recently named Director-General of the ten new military biological laboratories. The services of Pharmacist-Majors Pastureau at the Central Army Bacteriological Laboratory, Thomassin at the Central Army Pharmacy, Moreau at Hospital No. 36, Labesse at the Front, Didier at Nantes, and Leblond at Dijon, are similarly acknowledged.

Colonial and Foreign News.

PROFESSOR DR. ERNST MACH, the well-known natural philosopher, died on February 19 at Munich, aged seventy-eight.

PINE-NEEDLE OIL is recommended as a substitute for turpentine oil by Eduard Büttner, Leipzig, in the "Pharm. Zeitung," February 16, but as the former has become dear he has brought into commerce as a substitute for turpentine oil a synthetic product, which he calls "pine-needle oil 2½ times concentrated," which chiefly consists of borneol acetate.

SALE OF DYES.—A large sale of aniline dyes and chemicals at the German liner *Gutenjuts*, condemned by the Alexandria Prize Court, has been held in Bombay. About four hundred persons attended the sale, and extremely high prices were paid, some of them being twenty-five times more than the original. The sale realised over three lakhs of rupees (about 20,000*l.*), the quantity of dyes sold being about 30,000 lb.

ALCOHOL.—The German Spirit Centrale advanced the price of pure spirit on February 25 by 50m. per 100 litres to 150m. This increase is due to the small production and also to the large demand for war-purposes. Large quantities are also supplied to the troops in the field and also to the occupied areas in Poland. The State Corn Office only recently decided to allow 45,000 tons of wheat to the distillers. The price in April 1910 was m.46.90; it is now m.150.

EXPORT PROHIBITION.—The Government of India has prohibited the export of pepper and capsicum to all countries, other than the United Kingdom, British Possessions, and British Protectorates. In regard to the grant of licences the Secretary of State for India has for the present reserved to himself the decision on all applications to export to neutral countries in Europe, even when these are in respect of existing commitments. Collectors of Customs have been authorised to permit exports to the remaining prohibited destinations up to normal quantities.

INDIGENOUS DRUGS.—The address of Sir Leonard Rogers on "Therapeutic Advances in India" at the annual meeting of the Asiatic Society of Bengal (*C. & D.*, March 4, p. 39) is the subject of comment in the "Times of India," where it is pointed out that, though the Forest Department and private enterprise have made a small start in the growing and marketing of such drugs as podophyllum, belladonna, henbane, and digitalis, India remains far from self-supporting in the matter of drugs. The aid of Government capital is advocated to develop the work of the Indigenous Drugs Committee.

MEDICINAL PLANTS OF AMERICA.—The seventh Pan-American Medical Congress, held at San Francisco, passed resolutions, states the "British Medical Journal," calling for the appointment by the various American Governments of a Commission for the systematic investigation of the medicinal flora of America. The view was expressed that this investigation should be conducted in connection with recognised universities, hospitals, and laboratories in the various countries, and in each case the work should include (1) a description of the plant; (2) its botanical classification; (3) its habitat, including the possibility of acclimatisation and cultivating; (4) methods of gathering and transportation; (5) alkaloidal and other chemical properties; (6) present uses, domestic and professional; (7) pharmacological investigation, with experimental and subsequent clinical data; (8) the probable value of the plant as an article of commerce; (9) additional facts of value as may be demanded by the Commission or determined by individual investigators.

BRITISH CHEMISTS IN ITALY.—The war, while it handicaps chemists at home through the lack of drugs and chemicals, is a double handicap on the British chemist abroad, in that he lacks customers also. The British chemist has hitherto held himself aloof from supplying State requirements, which is one of the causes of the twenty years' confiscation scheme now the law in Italy. The Anglo-Saxon tourist, in the supplying of whose travelling needs the British chemist found ample scope for his energies, and from whom he obtained his remuneration, has ceased to exist. This, naturally, will be less felt in Paris and Florence than in other tourist centres, as in both the cities mentioned there are many nursing and convalescent homes doctored and staffed by American or British subjects. Florence has many villas handed over to wounded officers from the Dardanelles. The supply of drugs and surgical requisites to these hospitals and convalescent homes may prove an outlet for the chemist's activities. Elsewhere in Italy, at Rome, San Remo, and the Riviera, the outlook is blacker.

Legal Reports.

Trade Law.

Sale of Air-cushions.—At Southampton this week, Thomas Henry Buckland claimed 17*s.* 6*d.* from Mr. F. B. Wride, chemist and druggist, for an air-cushion which he said was defective and not fit for the purpose it was required and intended to be used for. Defendant cross-examined plaintiff, who admitted that the air-cushion had been passed through the post since the sale, and that it was tested in his presence at the time of sale. The Judge decided in favour of defendant, with costs.

Compensation Case.—In the Shoreditch County Court on March 14, Phoebe Kaatz, Leagrave Road, Clapton, applied for a sum of 21*l.*, which had been awarded her against the Carbonic-acid Gas Co. for the death of her husband at the works at Clapton. Mr. Sharman, solicitor, said the gas company appealed against the verdict, and the appeal was in the lists for this week, but it had been decided to drop it, on the understanding that each side paid their own costs of the appeal. He had advised this course, as the costs will be small. Judge Cluer made the order, but advised applicant to leave the money in the custody of the Court.

Disputed Claim.—In the Shoreditch County Court on March 10, the C.B. Syndicate, Ltd. (in liquidation), surgical and medical instrument makers, late of 38 Croyley Street, Hoxton, through Mr. Bertram Shaw, the liquidator, sought to recover 2*l.* 15*s.* from Fred Maynard & Son, Ltd., of 56 and 56A Holly Street, Dalston, glass-merchants. The defendants' managing director said they had dealt with Mr. Galer, of Bond Street House, Clifford Street, W., and had no knowledge of the plaintiff firm. The difficulty is not as to whether there is any money owing, but what the plaintiff firm has to do with the matter. Judge Graham gave a verdict for the defendants, and also granted costs.

Sale of Dutch Drops.—At the Mansion House Court, London, on March 13, Gossi Syperba, captain of a Dutch boat moored at the Custom-house Quay, pleaded guilty to two summonses for selling unstamped and without a licence a medicine liable to duty. Mr. Dart, for the prosecution, said the medicine in question was "Dutch drops," and with every bottle sold there is given a circular, which appeared to recommend the drops for every known ailment. Last October 6,000 bottles of "Dutch drops" were imported into this country and sold by the defendant and his mate, and last December they had another consignment of 6,000 bottles. Owing to the bottles not being stamped, Mr. Dart said, there was a loss to the revenue of 75*l.* The Lord Mayor fined the captain 20*s.*, and his mate, Remma Rollemmer, who was similarly summoned, 40*s.*

Bankruptcy Report.

Re James Charles Cotton, 65 Church Street, St. Helens, Chemist and Druggist.—The first meeting of creditors in this matter was held on March 9, at the Official Receiver's office, Liverpool, when the statement of affairs showed liabilities amounting to 1,635*l.*, and assets valued at 365*l.* Debtor started trading in August 1907 without capital. His father had for many years carried on the business of a chemist, and under his will debtor was given permission to carry it on for his own benefit and had the option of purchasing, wholly or in part, the stock-in-trade, utensils, and book-debts at a valuation, but he did not exercise the option. The sale of the business, however, was to be postponed so long as the debtor carried it on and paid an agreed rent to the estate. Debtor has paid certain allowances to his sisters, and the rates, taxes, and mortgage interest. Mr. Parkin S. Booth, accountant, 2 Bixteth Street, Liverpool, was appointed trustee. The creditors include: Ayrton, Saunders & Co., Ltd., Liverpool (30*l.*); Schutze & Co., London (6*l.*); Clay, Dod & Co., Liverpool (15*l.*); and J. Quilliam & Co., Ltd., Manchester (9*l.*).

THE LATE MR. JOHN MCCALLUM, 177 Neilston Road, Paisley, soap-manufacturer, of Isdale & McCallum, left unsettled personal estate in the United Kingdom valued at 7,735*l.*

MR. GEORGE SHEPPERLEY, Ph.C., 2 Derby Terrace, Nottingham, who died on January 23, left estate valued at 2,488*l.* 8*s.* 5*d.* gross, with net personality 2,158*l.* 3*s.* 3*d.* Probate of his will has been granted to his son, Mr. George Joseph Shepperley, and Mr. Jas. Lane, 16 Osborne Avenue, Sherwood, retired chemist.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

ANDREWS BOX CO., LTD. (P.C.).—Capital 600*l.*, in 1*l.* shares. R.O., 173 Old Street, London, E.C.

LARKFIELD CHEMICAL CO., LTD. (P.C.).—Capital 700*l.* Objects: To carry on the business of synthetic, analytical, and general manufacturing chemists, etc. R.O., Larkfield, Kimmage Road, Dublin.

CHYMOL CO., LTD. (P.C.).—Capital 2,600*l.* Objects: To carry on the business of manufacturers of and dealers in the food product known as "Chymol," etc. R.O., Atlantic House, 46a Holborn Viaduct, London, E.C.

ESSEX GLASS WORKS, LTD. (P.C.).—Capital 2,500*l.* Objects: To take over (1) the business of the Essex Glass Works carried on by M. I. Manners, and (2) the lease of 57 King's Road, Barking. R.O., 11 Queen Victoria Street, London, E.C.

OLDSIDE CHEMICAL CO., LTD. (P.C.).—Capital 5,000*l.* Objects: To carry on the business of manufacturers of artificial manure of all kinds, chemicals, vitriol, nitrates, nitrate of soda, potash, veterinary medicines, etc. R.O., 27 Water Street, Liverpool.

BRITISH SURGICAL DRESSINGS, LTD. (P.C.).—Capital 30,000*l.* Objects: To carry on the business of manufacturers of and dealers in medical bandages, lint, binders, dressings, soaps, medical and surgical specialities, and general surgical materials, etc. Solicitor, F. S. Oppenheim, 30 St. Ann's Street, Manchester.

LIEBIG'S EXTRACT OF MEAT CO., LTD., have declared a half-year's dividend at the rate of 5 per cent. per annum on the preference shares, payable less income-tax.

SWIFT'S DRUG-STORES, LTD.—At the Scarborough County Court, on March 14, an order was made for the winding-up of this company, which carries on business at Bridlington, and has been insolvent since February 8.

Marriages.

Authenticated notices are inserted without charge.

JONES-ABRAHAM.—At the Crwys Road Welsh Calvinistic Methodist Chapel, Cardiff, on March 9, Lance-Corporal F. A. Jones, Glamorganshire Yeomanry, son of Mr. Jabez A. Jones, chemist and druggist, to Dora, daughter of Mr. D. Abraham, Cardiff.

MCGREGOR-MORRISON.—At the Trinity Presbyterian Church, Leeds, on March 6, by the Rev. Wm. Johnstone, B.A., Francis W. Spence McGregor, chemist and druggist, youngest son of Mr. Frank McGregor, Keith, to Maggie Murray, youngest daughter of the late ex-Inspector Morrison, Keith.

QUIRKE-SINNOTT.—At St. Andrew's, Westland Row, Dublin, Edward J. Quirke, L.P.S.I., Tullamore, to Mary (May), fourth eldest daughter of Mr. T. Sinnott, Carnew, co Wexford.

Deaths.

Authenticated notices are inserted without charge.

ASPINALL.—At Blackpool, recently, Mrs. Annie Aspinall, widow of Mr. Alfred Aspinall, formerly a chemist in Market Street, Darwen, aged eighty.

BAKER.—At Chelmsford, on March 3, Mrs. Helen Elizabeth Baker, widow of Mr. Garrad Baker, chemist and druggist, aged seventy-three.

BOYD.—At Sloperton, Kingstown, on March 8, Mrs. Jane Boyd, widow of Samuel Boyd, formerly of Boileau & Boyd, wholesale druggists, Dublin, aged seventy-eight.

DAYKIN.—At Ripley, Derbyshire, recently, Mr. Kendel Daykin, chemist and druggist, aged sixty-nine. Mr. Daykin, who was in business before the passing of the Pharmacy Act, 1868, had been in business at Ripley for forty-five years.

FELLOWS.—At the funeral service of the late Mr. Hugh Fellows, chemist and druggist, Wolverhampton, held at St. Paul's Church, the Wolverhampton Chemists' Association sent a wreath and was represented by Messrs. E. H. Bowdler (President), F. J. Gibson, J.P., H. E. Cullwick, W. R. Dunn, M. R. Warner, C. Warner, S. Schofield, and Councillor H. Coleman (Secretary). The interment took place at Dudley.

LEVINSTEIN.—At Parkfield, Hale, Cheshire, on March 15, Mr. Ivan Levinstein, Past-President of the Society of

Chemical Industry, aged seventy-one. Mr. Levinstein was born in Berlin, and educated at a Royal Prussian College and at the Berlin University and Technical High School. At eighteen he had become assistant chemist to Professor Weber, and had already done a considerable amount of research-work. In 1865 he patented in Germany an improvement in the manufacture of aniline dyes, and the following year moved to Manchester, with the intention of commencing business as a chemical manufacturer. His first works were at Blackley, near Manchester, but soon he moved to Crumpsall



MR. I. LEVINSTEIN.

Vale, where the business, now Levinstein, Ltd., has reached very large proportions. Mr. Levinstein was President of the Society of Chemical Industry in 1901, and has always taken great interest in that Society. When the annual meeting was held in Manchester last year he was too unwell to be present. The special service which he has rendered to chemical industry has been in connection with the patent laws. He showed, long before this country had realised German aims, that German chemists were taking advantage of the British patent laws to prevent the development of British chemical industry. After persistently fighting some of the German companies in the law-courts, and demonstrating that the compulsory-licence provisions of the Patent Acts were inoperative, he started a movement which led to the passing of the new Patent Act during the time Mr. Lloyd George was at the Board of Trade. Mr. Levinstein, however, regarded this as only a step to further progress in the patent laws. His services were recognised in 1892 by a presentation from representatives of British chemical industry. He took a deep interest in the Municipal Technical School and the Manchester University, and was at one time President of the Manchester Chamber of Commerce.

McCLEMENT.—At Donaghadee, on March 14, Mr. John McClement, J.P., chemist and druggist. Deceased had carried on business in Newtownards for many years.

NICHOLAS.—In London, as the result of an accident, on March 11, Mr. George Nicholas, chemist and druggist, aged thirty-five. Mr. Nicholas, who passed the Minor in 1904, was run over by a motor-omnibus at Clapham, and died on the way to the hospital. An inquest was held and a verdict returned of "accidental death."

PENNINGTON.—At Gidlow Avenue, Wigan, on March 10, Mr. John Pennington, chemist and druggist, the Crawford Pharmacy, 25 Standishgate, aged forty-six. Mr. Pennington felt unwell on the previous Monday evening, but was at business on the Tuesday. On Wednesday his medical adviser diagnosed that deceased was suffering from acute appendicitis, but it was too late for an operation. He was of a quiet, unassuming manner, and beloved by all with whom he came in contact.

The funeral took place on March 14 at Standish Cemetery, and was attended by Messrs. Hunter, Scott, Mould, Litherland, and Winstanley, representing the Wigan Pharmaceutical Committee and other Associations of which Mr. Pennington was a member.

Killed in Action.

WALDRON.—Lieutenant C. H. Waldron, whose name appeared on the official list of the killed, dated March 6, was a member of the London staff of Burroughs Wellcome & Co. Soon after the outbreak of war he applied for a commission, and in September 1914 was gazetted to the 7th Battalion of the Lincolnshire Regiment. He was a Fellow of the Chemical Society, and for some years was a student at the Birkbeck College.



LIEUT. C. H. WALDRON.

SMITH BROS. & Co., the Bonanza Drug-stores, Port of Spain, Sangre Grande, and Arima, Trinidad, B.W.I., have published their diary for 1916, which they supply to their customers. The cover displays the flags of the Allies who are fighting for civilisation against barbarism.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Loss of Weight of Musk.—Bazzoni ("Journal of the Franklin Institute") states that dry musk loses weight when exposed to a current of dry air for about seven months, and then when the loss of weight ceases the musk is inodorous. The odour, moreover, is not restored by exposure to damp air.

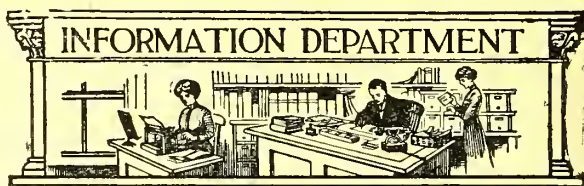
Iodine in Urine may be detected by the following process, devised by Losser ("Journal de Pharmacie"): Mix a few drops of the urine on a watch-glass with a small quantity of calomel. If iodine is present a yellow coloration, due to the formation of mercurous iodide, develops. Sugar or albumin does not interfere with the test.

Hexophan, introduced for the treatment of gout and rheumatism, is stated to be oxyphenylchinoline-dicarboxylic acid ($C_{17}H_{11}NO_5 \cdot H_2O$), and to be made by the condensation of acetylsalicylic acid and isatine which are heated together in an alkaline solution. The oxyphenylchinoline-dicarboxylic acid obtained is purified by conversion into the sodium salt or the methyl ester. It is a yellow powder, without smell or taste, nearly insoluble in water, alcohol, and ether, and in warm hydrochloric acid, but soluble in ammonia and solution of sodium hydrate.

Tests for Gum Acacia.—A study of many of the published tests for gum arabic, with descriptions of attempts to find others than the few that proved to be reliable, has been published by the United States Bureau of Standards. It was found that basic lead acetate gave the most characteristic reaction, while mixtures of copper sulphate and sodium hydroxide and of neutral ferric chloride and alcohol are of value as confirmatory tests. Dextrin and Ghatti gum were subjected to the same tests. A summary of the more important methods that have been proposed for the quantitative estimation of gum arabic is next given, followed by a description of the steps that led the investigators at the Bureau to the use of alcoholic copper acetate-ammonia solution for this determination.

Radium-paint.—At a meeting of the Optical Society, during a discussion on improvements in prismatic compasses the question of the durability of radium-paint came up. Lieut. Colonel Symonds pointed out that the maximum intensity of a radium-painted compass-card is not apparent until the eye has become used to darkness. It requires twenty minutes in complete darkness for the eye to reach the stage of maximum excitability. Mr. Harrison Glew said that the light given out is practically monochromatic, although there might be a very faint violet line. He described two methods of testing the paint, and then mentioned that radium-paint is not permanent, in the sense that the zinc sulphide becomes exhausted. The radium is always there, however, and can be recovered. He also stated that the Admiralty specification requires 0.04 mg. of radium to 1 gram of zinc sulphide.

Cinchona-bark Alkaloids.—Lenci ("Boll. Chim. Farm.," 1915, 54, and "Journal of the Chemical Society") refers to Hager's method of estimating the alkaloids in cinchona-bark by precipitation of the alkaloids as picrates and weighing the precipitate on a tared filter after drying at 40°. This precipitation is accompanied by coagulation of the proteins, waxy matter, etc., high results being consequently obtained. Lenci finds that the following procedure gives good results: To 5 c.c. of a solution of the hydrogen sulphate of the alkaloid is added 50 c.c. of a cold, saturated picric-acid solution, the titre of which has been determined by the "nitron" method. After half an hour the liquid is filtered, and the residual picric acid in 5 c.c. of the filtrate estimated by precipitation with nitron. Multiplication of the amount of picric acid thus formed by eleven, and subtraction of the product from the picric-acid content of the 50 c.c. of precipitant, gives the quantity of the acid which has combined with the amount of alkaloid taken. The results obtained in this way with solutions of various concentrations of the acid sulphates of quinine, cinchonine, cinchonidine, and quinidine show that, in all cases, 2 mols. of picric acid combine with 1 mol. of the alkaloid. For the various alkaloids, the factors by which the amounts of picric acid in the precipitates must be multiplied in order to arrive at the corresponding quantities of alkaloid are for quinine and quinidine 0.7075, and for cinchonine and cinchonidine 0.6419. For the complex mixture of alkaloids in cinchona-bark, the mean factor, 0.6738, gives approximately exact results. "Nitron" is the name given by Busch and Blume to the base 1,4-diphenyl-3,5-endoanilodihydrotriazole. It forms an insoluble compound with picric acid.



Postal Address:

C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.

Telegraphic Address: "CHEMICUS, CANNON, LONDON" (two words).

Telephone Number: 3617 CENTRAL (three lines).

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. Please address us as above:

- | | |
|---|--|
| 157/59. "Empire" bath-cabinet. | 160/72. Makers of suppository |
| 158/48. "Euthol." | No. 182351 B. (Routledge). |
| 159/57. Venner's specific for dogs. | 160/70. Naphtholated charcoal. |
| 161/7. Actual makers with prompt supply in this country of lambs' teats, soothers, enemas, etc. | 160/69. Naphthol thalinea (? thaleine). |
| | 150/49. Sowerby's worm powders for horses: first-hand suppliers. |

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.:

- | | |
|--|-------------------------------------|
| Acetic-acid plant, 140/8 | Metal hot-water bottles, 143/68 |
| Acetic anhydride, 114/9 | and 147/29 |
| Adamson's grease-paints, 132/1 | "Mum," 148/52 |
| Buxton's chloride ammonium inhaler, 126/73 | Oxydol, 145/41 |
| Calcium phosphate, 140/15 and 149/56 | "Palmolive" soap, 158/45 |
| "Epicolloids," 125/40 | Pepper's sulpholine lotion, 154/730 |
| "Ernutin," 158/48 | Seamless elastic hosiery, 132/69 |
| "Figsen," 113/31 | Sea-water plasma, 138/68 |
| "Instra" warmer, 133/62 | Senega-root (for Japan), 122/741 |
| Jackel's cream, 145/42 | Tetrachlorethane, 116/28 |
| "Klenzall" purifying compound, 146/65 | Thiokolaxine, 142/18 |
| Lalor's, Dr., phosphodyne, 144/1 | "Vocalzones," 128/37 |
| | Water-glass, 158/55 |
| | Webster's liniment, 159/58 |

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Sunday, March 19.

Pharmacist Volunteer Training Corps, Millbank Schools, Erasmus Street, Westminster, S.W., at 10 A.M. Company parade for squad-drill, etc., followed by lecture on "Routine."

Monday, March 20.

Liverpool Pharmacists' Training Corps, Royal Institution, at 9 P.M. Parade, squad-drill, and lecture by Dr. McDougall, D.P.H., on "Hygiene and Sanitation."

Wednesday, March 22.

Pharmaceutical Society, North British Branch, 36 York Place, Edinburgh, at 8.30 P.M. "The Precipitation of Codeine Solutions by Ammonia," by Mr. William Duncan, Ph.C., F.C.S.; "Methyl-Orange as Indicator in Titration of Alkaloids," and "Determination of Hydrocyanic Acid," by Mr. D. B. Dott, Ph.C., F.I.C., F.R.S.E.; "Case of Poisoning by Daffodil Bulbs (*Narcissus Pseudo-narcissus*)," by Mr. W. G. McNab; "Incompatible Iodine and Salicylate Mixture," by Mr. J. Rutherford Hill, Ph.C.

Lancaster Pharmacists' Association, King's Arms Hotel, at 3.30 P.M. Mr. P. F. Rowsell and Mr. E. McMillan on "The Proprietary Articles Trade Association."

Ipswich Chemists' Association, Crown and Anchor Hotel, at 7 P.M. Mr. J. G. Atkinson and Mr. D. P. Macdonald on "The Proprietary Articles Trade Association."

Pharmacist Volunteer Training Corps, 17 Bloomsbury Square, London, W.C., at 3.30 P.M. Rifle instruction, etc. Programme to be repeated on Thursday.

Thursday, March 23.

Grimby Pharmacists Association, Dring's Hotel. At 3 P.M. annual meeting. At 4.30, tea by invitation of the President. London (S.E.) Pharmacists' Association, 134 Greenwich Road, S.E., at 5 P.M. Mr. John Keall, Mr. R. Feaver Clarke, and Mr. W. Johnston on "The Proprietary Articles Trade Association." Early Closing Association, Mansion House, London, E.C., at 3 P.M. Annual meeting, the Lord Mayor in the chair.

Friday March 24.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 5.30 P.M. Professor W. M. Bayliss on "The Mechanism of Chemical Change in Living Organisms."

Observations and Reflections.

By Xrayser II.

The Cost of Salvarsan Treatment

of syphilis by the State is going to be enormous. According to the report of the Royal Commission on Venereal Diseases, 10 per cent. of the entire city population suffer from syphilis. In Greater London the population numbers over seven millions, and therefore 700,000 people, old and young, are affected by the syphilitic taint. They cannot all be treated at once. Assume that a tenth of this number is treated every year, this means 70,000 patients annually. The Royal Commission appears to accept the medical evidence that salvarsan is a cure, though many specialists refuse to give a definite opinion on the matter; but, assuming that it is a cure, from four to eight doses are required for a course of treatment. At four injections it will thus require 280,000 intravenous injections of salvarsan before the existing cases of disease in London alone are treated. At 10s. per dose this means 140,000l. per annum for the salvarsan treatment of London for the next ten years at least—a total of 1,400,000l.

Patriotism and Profit

(if I may borrow the title of a letter you published last week) are not always easily compatible, and the adjustment of the balance between them may require a little casuistry. A too scrupulous conscience, however, is usually a weak conscience, and it is possible to consider too curiously. Substitutes for enemy imports must of necessity be found, and they who provide them for us deserve all the encouragement we can honestly give them, even if (as will sometimes happen) we do it at the cost of some temporary inconvenience. It is true, too, that ultimately this policy rests, however ostensibly motivated, on self-interest; it is necessary for the security of national independence, and the interest of the individual cannot be separated from that of his country. But though the two are mutually dependent they are not identical, and it is very desirable that our pursuance of the higher object should, as far as is humanly possible, be inspired by the higher motive. The time is coming when, as traders, our patriotism may be put to a more severe test than has yet been the case. Whatever the result of the coming trade-conference between us and our Allies, we shall certainly see great changes in international commerce before long, and we must prepare ourselves individually to look at the questions that will arise not from the point of view of our particular trade, or even exclusively from a national point of view.

"M. P. S."

speaks of me so flatteringly that it may seem a little ungracious to rebut his criticism, and I only do so because my objection to his term *boycott* signifies more than a mere verbal difference. The word has a very unpleasant connotation; it conveys a meaning which I feel sure "M. P. S." himself did not intend, but which in the immense majority of minds cannot be separated from it, and, this being so, it is not desirable to use it with reference to friendly peoples. There is no "hair-splitting" in the matter; it is a simple case of avoiding the use of words which, however, unintentionally, would certainly imply an unfriendly feeling.

Hot Water,

if it is hot enough, is *experto crede*, an excellent thing in many disorders; but hot infusions have, as far as I remember, never had a place in our official books. In the earliest of these there were, indeed, no infusions at all so called, though decoctum epythimi was partly a decoction and partly an infusion. Anciently, the terms decoction and infusion were used interchangeably in some cases, but, whatever the name used, the preparation was not, as a rule, intended to be given hot. The oldest of our official infusions is inf. sennæ, which, however, first appeared as a decoction, under the name of decoctum sennæ gereonis. Greatly simplified, and with salt of tartar added, it was made official in 1720, when inf. amarum simp. and inf. amarum solutivum (the former

of which afterwards took the name of inf. gentian. co.) were also introduced. It is strange that so useful a form as the infusion plays so small a part in official medicine. Down to 1788 it had only four official representatives, but in 1809 the number was suddenly increased to eighteen. This is the more remarkable because, long before 1720, and all through the century following, unofficial infusions were numerous and exceedingly popular; they were, however, classed as extemporaneous, and our forefathers in the profession, in spite of their many absurdly complex preparations, appear to have had scruples with regard to this kind of "stock mixture."

A Very Unjust Charge

against chemists and druggists was made last week by a well-known Church dignitary in a letter to one of our leading "dailies." Otherwise perhaps negligible, the letter deserves attention as evidence of the readiness to resent anything like "profiteering." The obvious injustice of the charge in this case, so far as we are concerned, adds point to its significance in this respect. Nearly everything we buy at the chemist's, says the writer, has advanced in price from 50 to 500 per cent.; and though he admits that some advance in cost must be allowed for, he considers such a rise in price extortionate. It is evident from the fact that the advance of cod-liver oil from 70s. to 500s. a barrel is cited in justification of the charge that it is made in ignorance of the conditions necessitating the rise. The writer has been told that cod-liver oil comes from Germany, but has some doubt of the fact; he knows, however, that a good many drugs do come from Germany, but the only apparent effect of this knowledge upon him is that he adds to his denunciation of "the sordid clamour for 'Business as usual'" an almost equally strong condemnation of the attempt to capture German trade. It does not seem to have occurred to him that the advanced price of drugs may be due to scarcity caused by our dependence upon Germany, and that our only way of escape from this humiliating and crippling position is the one he condemns. He tells us to adopt "German methods of scientific instruction, manufacture, and distribution," but does not see that if we are to do this we must capture at least as much of their trade as would pay for doing it. I hope, however, that we shall not adopt *all* the German methods.

The Early History of the Foxglove

in medicine is in curious contrast with what we are told of recent research in connection with the plant in the important article on "Heart-tonics" in your recent Winter Number. Foxglove does not appear to have been used in medicine in ancient times, and Gerard's editor, Johnson, attributes to a blunder the herbalist's statement that Galen recommends it as serving the same purpose as gentian. It is not always certain what is meant when our oldest writers mention foxglove; *salunca*, for example, is sometimes glossed as "wild popi," as "calketrappe," and as "foxes-glove," but these names cannot all mean the same plant. It is interesting to find a name partly of Greek origin, *cerotea vulpis* (*cerotea*=*cheiro theke*, which is *hand-case*) in the "Sinonoma Bartholomei," applied to what can hardly be anything else than our foxglove, the history of which, however, it is safest to begin with Fuchsius, who first gave it the name *digitalis*, in allusion to the German *Fingerhut*. The plant was in much use in the seventeenth century as an application to scrofulous and other sores, and our herbalists, many of them, apparently unaware of its dangers, recommended it internally as a "cleanser" of "tough and clammy phlegms." It did not appear in our first P.L., but was introduced, as was also an *unguentum digitalis*, in later editions. It was received into the Edinburgh book earlier than Wootton says, being in the edition of 1735. Withering's book on the subject appeared in 1783, and was noticed at some length in Healde's edition of the P.L. of 1788. Healde relates that he was himself dosed with *digitalis* when a youth (in 1738) with most alarming results, the heart having apparently been strongly affected, and he endorses Withering's caution as to its administration.

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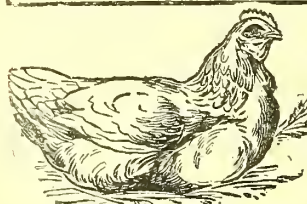
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Editorial Articles.

The Position of Salvarsan.

THE question "Does salvarsan cure syphilis?" was ignored by the Royal Commission (*C. & D.*, March 11, p. 74), but it is being discussed more or less openly in medical circles, and it seems desirable to indicate what is said. Everyone who has had any experience of the application of the Wassermann test is agreed that a positive reaction may be obtained even after the most prolonged and intensive treatment. When salvarsan was introduced the discoverer stated that one dose was sufficient to purify the victim of the syphilitic taint, and this, it was said, had been proved by 30,000 clinical cases. By and by it was found that one injection failed to kill the spirochaetes, and, to make sure, a course of four was recommended. But even this was found to be of no avail, and a course of mercury was then resolved upon to choke off the few hardy organisms that survived the attack with salvarsan. Gottheil in 1910 stated that salvarsan does not cure syphilis any more than does mercury and iodine, and he has recently substantiated this statement, but he now believes that all three drugs have a place in the treatment of syphilis—salvarsan in the early secondary stage, mercury most vigorously in the early stages and in all stages, and iodine in late syphilis. His course of treatment is along this line: Four to eight intravenous injections of neo-salvarsan as soon as diagnosis is made; twelve to twenty intramuscular injections of mercury salicylate at intervals of a week. Thereafter the treatment just described is repeated, and in the second year old salvarsan is given instead of neo-salvarsan, and during these twelve months at least two courses of the combined arsenical and mercurial treatment are given. At the end of the second year the iodine treatment is begun. The duration of the treatment depends on the virulence of the infection and the susceptibility of the individual, but it is just as important to maintain treatment for three years as it was ten years ago, when salvarsan did not exist. Here the Wassermann test is again a guide to treatment. Re-examination of blood or cerebrospinal fluid a year after a person is apparently cured may reveal a positive reaction, which proves that the cure is not absolute, and further measures must be taken if ultimate serious nervous complications, such as locomotor ataxy or general paralysis, are to be avoided.

Soap and Glycerin.

FROM communications which have reached us from the chief British soap-manufacturers it appears that an injustice was done to them in an article on p. 73 of our last issue by not emphasising the influence which the increased price of raw materials exerts upon the soap-industry. This and the fixed price of glycerin are the chief factors which are enhancing the price of soap. The Government, it will be remembered, took over the control of the manufacture of glycerin last August, paying for the glycerin at the rate of 59/ 10s. for crude. Since then, although the price of oils and fats has increased by 15/ to 20/ per ton, the glycerin factor remains the same. The yield of glycerin may be put roughly at 10 per cent. It follows that if the factor for raw material increases while that for glycerin is fixed, the cost of the soap produced bears the increased cost due to the raw-material factor. Many causes are at work to account for the rise in oils and fats, apart from labour and freightage difficulties, one being the fact that in the United States glycerin sells at from 170/ to 190/ per ton. This enables the American soapmaker to pay relatively more for his raw material, with the consequence that the price is raised against British consumers. It happens also that much of the vegetable fats sent to the United States is produced within the British Empire, and it seems as though the Government could assist soapmakers in the present difficulty by taking steps to divert all supplies of raw materials produced within the Empire to this country.

Feeling the Pinch.

IT has been evident to anyone who takes an interest in the prices prevailing for chemicals and drugs in Germany that up to the present the general rise has been smaller compared with that prevailing in other European markets. Of late, however, there are signs that the scarcity of raw materials for manufacturing-purposes is becoming acute, owing to which fact several factories have ceased producing. This applies to the gallic-acid and strychnine makers, who are unable to obtain Chinese galls or nux vomica, even from neutral countries. The prices of borax and boric acid have advanced several times lately, and are above those ruling here. The producers of bromides are only able to supply a small proportion of the demand. Supplies of oxalic acid, lithium carbonate, bismuth, and bismuth salts are giving out; while glycerin, sulphur, saltpetre, and camphor were commandeered some time ago by the State, and cannot be dealt in. Citric acid, tartaric acid, phenacetin, phenazone, chloral hydrate, and the salicylates are all much dearer, as the output is on a much smaller scale, and the prices are still rising. It is only with the greatest efforts that many of the wholesale druggists in Germany are able to "carry on," as much of their labour has been called up for military service. There has also been a general advance in paper, packages, glass bottles, and corks, which adds to the difficulties. Many German-grown herbs, flowers, leaves, roots, etc., are dearer, owing to the lack of labour, while drugs that are imported, like senega, ipecacuanha, senna, hydrastis, cascara sagrada, jalap, and the like, are getting scarcer every day; the same applies to peppers, cloves, cinnamon, gingers, and other spices. Alcohol is now 150m. per 100 litres—five years ago it was 46.90m., and in consequence all galenical preparations have to be used very sparingly. The position is similar but rather worse in Austria.

The Recruiting of Chemists.

THE circulars to which we referred last week (p. 73) regarding the changed position adopted in reference to the certified occupation of panel chemists have been sent out by the National Health Insurance Commissioners and the Pharmaceutical Society. Steps are already being taken to form the local Committees to take in hand the recruiting problem in conjunction with the military representatives. It is expected that a revised list of certified occupations will be issued at once, but so far as we can learn this is not likely further to alter the position as regards chemists. The Reserved Occupations Committee, upon which are representatives of the War Office and of the Government Departments whose employes have hitherto been liberally supplied with exemption badges, is engaged upon this work. Recommendations have already been made as to age-limits, so far as exempted men are concerned, and as regards the time since when these men have been employed in the particular occupation. The time fixed is the date when the National Register was made, August 15, 1915. According to an official communication to the Press, the occupations likely to be removed from the reserved list are those connected with luxury trades, such as the manufacture of tobacco, silk, and lace, which were placed in the list originally because of the importance of the export trade. For the benefit of numerous inquirers, we may mention that a useful booklet for those who require further information as to the working of the military tribunals is "Group and Class Systems: Notes on Administration," which is issued by the Director-General of Recruiting. It is published at 3d.—the new edition is dated February—and is obtainable from any booksellers.

Dental Notes.

Obtundent for Sensitive Dentine.

A GOOD OBTUNDENT for sensitive dentine, but which must be used in shallow cavities only, is the following:

Zinci chlor. ...	...	...	gr. x.
Alcohol ...	...	...	5ij.
Chloroformum ad ...	...	...	3ss.

Thoroughly dry the cavity, and apply on pledgets of cotton-wool, and evaporate with hot air.

A Dental Student's Rhyme.

TINCTURES of which the doses are from 5 to 15 minims have been put into rhyme as useful for dental students:

The Indian Hemp and Spanish Fly,
The Crocus and Gelsemium,
Podophyllin and Stramonium
Have a similar dose to Capsicum.
Strophanthus and Cocculus and Aconite-root
Have the same dose as Nux Vom. fruit;
Lobelia and Iron Perchloride come
Walking with Colchicum Seminum.
Five to fifteen is the dose, you must know,
For Tr. Chloroformi et Morphine Co.

Appendicitis and the Teeth.

SIR FREDERICK TREVES states that defective masticating teeth are exceedingly common among the subjects of appendicitis, and especially among those who have passed the period of youth. Over and over again it would appear as if the want of proper and efficient teeth had been the direct cause of the attacks. Such patients often bolt their food, and such meat as they eat can hardly reach the stomach in a condition fit for complete digestion. The bolus passes into the bowel still ill-digested. It fails to stimulate normal peristalsis, is prone to lodge in the great receptacle, the cæcum, where it decomposes, and if there be any existing lesion of the appendix, must tend to encourage the morbid lesion.

Official Galenicals.

Notes for Students on the Methods of Manufacture.

By H. F. Slack, Ph.C.

(Laboratories of the Standard Tablet and Pill Co., Ltd.)

(Continued from C. & D., January 29, p. 149.)

Lin. Chloroformi.—In the unlikely event of lin. camph. not being at hand, dissolve the camphor in the chloroform and add the required amount of olive oil.

Lin. Potassii Iodidi cum Sapon.—The dish or other vessel used for dissolving the soap, which must be shredded very finely, should be tared, so that you may know how much water is required to make up for loss due to evaporation. The solution of the soap should be strained if necessary, and as a very light, frothy preparation is not intended to result, the final trituration should not be so brisk as to cause incorporation of a large volume of air. Darkening of the liniment frequently occurs on keeping; this is considered to be due to liberation of iodine by a small amount of hydrogen peroxide derived from the oil of lemon.

Lin. Terebinthinæ.—Many improvements have been proposed for the manufacture of this preparation, but it is quite possible to obtain an elegant emulsion by following the pharmacopœial directions, observing that (1) the water must be added very gradually to the soft soap, with constant trituration, until a perfectly homogeneous solution is obtained; (2) the solution of camphor in the oil of turpentine must be added in exceedingly small quantities at a time, especially in the prior stages of emulsification; (3) the undesirable effect of too large an addition of the turpentine solution may be immediately counteracted by the addition of a very small volume of water. Among the suggested improvements in making the liniment may be mentioned: (a) The addition of the camphor to the soap, in order to disintegrate effectually the latter and result in quick solution of a soft soap which is stiff in consistence; (b) the use of correct proportions, ascertained by experiment, of oleic acid and potassium hydroxide, with or without the addition of a little glycerin, in order to produce extemporaneously the soft soap in a manner adapted to the special needs.

Lin. Terebinth. Acet.—Any turbidity in the finished liniment is usually due to the glacial acetic acid being too weak.

Liq. Acidi Chromici.—This solution should never be dispensed in a corked container, but in a stoppered bottle.

Liq. Ammonii.—The water should be added to the strong solution of ammonia, and not *vice versa*, in order to minimise loss of ammonia-gas.

Liq. Ammon. Fort.—May be prepared from the commercial "880" ammonia (36-per-cent.) by diluting with 9 to 10 per cent. of water, according to its original strength.

Liq. Ammon. Acet.—Difficulty often presents itself in ascertaining the point of exact neutrality. Litmus may be used as an indicator with a small volume of the solution withdrawn for examination. Solution of lead acetate is also often employed. When the stage is reached at which the liquid no longer yields a precipitate with the latter reagent, the carbonate originally present has been completely converted into acetate, the exact point of the change being observed by applying the drop method as followed when assaying ferrous salts with potassium bichromate. The yellow tint frequently observed in finished solutions of ammonium acetate is due to iron, and depends upon the formation of a compound chemically similar in nature to ferri et ammon. cit. When the ammonium carbonate has to be powdered coarsely, cover the carbonate in the mortar with water, so as to minimise loss of ammonia.

Liq. Ammon. Cit.—A better method of preparing this solution, also liq. ammon. acct., is to mix the respective acids and salt in molecular proportions, their neutralising power having been previously determined volumetrically.

Liq. Arseni et Hydrarg. Iodidi.—The two iodides should be triturated together with water, and not by themselves. Any insoluble residue is arsenic, and a darkening in colour, which frequently appears, is due to liberation of iodine; the colour disappears, however, on exposure to sunlight, or on making the solution slightly alkaline.

Liq. Calcis Saccharatus.—It is important that the weight of sugar taken be exactly in proportion to the calcium hydroxide, as it is its forming saccharate of lime that makes a strongly alkaline solution possible. Note the official directions as to a green-glass bottle.

(To be continued.)

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MR. WILLIAM HENRY HARTLEY, the original "Sequah," has assured the Press that he is not dead.

MR. A. C. GRAMMER, formerly with John Richardson & Co. (Leicester), Ltd., has been appointed manager of the Medical Supply Association's branch at Sheffield.

SIR RICHARD WINFREY, M.P., Sutton House, Peterborough, and Mr. Woolmer White, J.P., Southleigh Park, Havant, have been appointed members of the Appeal Tribunals.

THE LOCAL GOVERNMENT BOARD has sanctioned the appointment of Mr. Geo. W. Gibson, chemist and druggist, as radiographer to the St. Pancras South Infirmary at an additional salary of 25*l.* per annum.

MR. E. A. PRATT, chemist and druggist, the Broad Green Pharmacy, West Croydon, has won a pair of bowls as the first prize in the handioap of the Wandle Park Bowling Club, 1915.

MR. J. H. THOMPSON, of Nottingham, representative of Ayrton, Saunders & Co., Ltd., Liverpool, having joined the Colours, Mr. Ernest Cheetham, "Fair View," Victoria Road, Louth, has taken up his position.

PRIVATE F. NORMAN, 18th Battalion Royal West Kent Regiment, formerly engaged with Mr. Thos. Parsons, chemist and druggist, London Road, Sevenoaks, was severely wounded in action at Loos.

MR. BERTRAND K. JACKSON, L.D.S., son of Mr. O. L. Jackson, chemist and druggist, the Imperial Pharmacy, Blackpool, has been appointed an Army dentist, with the temporary rank of lieutenant. He is stationed at the Alexandra Hospital, Cosham.

SERGEANT GEORGE DOWNIE, 1/5th Highland Light Infantry (T.), has been awarded the French Médaille Militaire. Sergeant Downie went to the Dardanelles in June last. He was previously in the employment of W. & R. Hatrick & Co., wholesale druggists, 158 Renfield Street, Glasgow.

LIEUTENANT J. DOUGLAS LUNAN, R.F.A., Lahore D.A.C., who has been gazetted Adjutant of the column, was a well-known forward of Stewart's College, Edinburgh. He volunteered when the war broke out, and has been almost a year abroad. His brother, Lieutenant G. H. Lunan, M.B., R.A.M.C., was killed near Ypres on May 13, 1915.

PRIVATE DENMAN METCALF, eldest son of Mr. R. A. Metcalf, chemist and druggist, King's Lynn, has been invalided home, having lost his left leg during active service. Prior to the outbreak of war he was engaged in his father's business in Norfolk Street. On receiving his discharge from the Army he intends to resume work in his father's business.

MR. CYRIL N. SEEDHOUSE, Second Lieutenant, of the Royal Flying Corps, has been performing brilliant flying-feats at the Front. After attacking two German aeroplanes, Mr. Seedhouse was, unfortunately, wounded, but, although only partly conscious, pluckily piloted his machine back for nearly twenty miles to the British lines. He is the son of Mr. W. Seedhouse, chemist and druggist, Newmarket.

SIR JESSE BOOT visited the Lobby of the House of Commons on March 15, and had interviews with several members on the subject, it is understood, of exemptions under the Military Service Act. Sir Jesse was wheeled into the inner Lobby, and remained there for a considerable time, subsequently proceeding to the "back of the Speaker's chair," where he had consultations with Ministers.

SERGEANT A. H. SMITH, R.A.M.C., a chemist, who left the London staff of Burroughs Wellcome & Co. in September 1914 to join the Forces, was wounded in the arm and ankle at Suvla Bay last November. He was subsequently conveyed to Malta, where the bullet was extracted from his arm. Shortly afterwards he was attacked by jaundice and was invalided home. Sergeant-Smith is now well again, and anticipates an early return to the Front.

A HUNDRED TONS OF FAT yields about ten tons of glycerin, which can be nitrated to yield twenty tons of nitroglycerin.

BOARD OF AGRICULTURE LEAFLETS.—Special leaflet No. 52, entitled "Destruction of Farm Vermin," has been issued recently. Chemists will be interested in the recommendations there made, and should write for a free copy to the Board of Agriculture and Fisheries, Whitehall Place, London, S.W. Another recent leaflet, No. 303, deals with the turnip-gall weevil, to combat which in certain cases soil insecticide is recommended.

Associations' Winter Session.

Other meetings are reported under Insurance Dispensing Reports.

Birmingham.—At a meeting of the Birmingham Pharmaceutical Association on March 15, Lieutenant E. C. Bennis, Ph.C., R.A.M.C., lectured on *Some Experiences in a Military Hospital*. Lieutenant Bennis spoke from his knowledge of the work in a large local military hospital. He described the difference between the peace and war establishments of a general hospital, and how the first 520 beds were equipped and ready for use in seven days, and this number has now expanded until in the headquarters and different sections there were over 3,000 beds, apart from the auxiliary hospital in the locality. He gave details of how the supplies of a big hospital are issued and accounted for, the types of cases admitted, and the precautions adopted by the War Office to prevent epidemics of typhoid and dysentery spreading to the civilian population. Lieutenant Bennis also dealt with the vexed question of commissions for pharmacists. He agreed that the present status is unsatisfactory, but did not think that commissioned rank would ever be granted to pharmacists. Probably warrant rank would meet the case, and might possibly be granted if the War Office is approached in the right way. Mr. E. W. Mann (President of the Association) was in the chair, and Lieutenant Bennis was cordially thanked for his lecture. The total amount realised from the whist-drive (see *C. & D.*, March 4, p. 50) held on February 16 is 31l. 12s. (21l. 2s. from tickets and subscriptions and 10l. 10s. proceeds from the Indian Bed Spread, which went to Miss Bentley, 171 Soho Road). The Committee thank all who helped to make the whist-drive a success. The sum of 15l. has been forwarded to the Red Cross Fund and 15l. to the Y.M.C.A. Huts Fund. Mr. Frederick Smith, Secretary of the Pharmaceutical Committee, referring to the prompt return of the recruiting-forms, asks us to state that the sending-in of the form does not in any way release chemists from their duties specified in the circular as necessary for (Class 1) persons who have not attested, but who are liable under the Military Service Act, and (Class 2) persons who have attested under Lord Derby's scheme.

Bradford.—A meeting of the Bradford Pharmacists' Association was held on March 10, Mr. R. T. Silson (President) in the chair. The Hon. Secretary (Mr. F. E. Burdett) reported progress in the matter of obtaining an order regulating the time of closing shops. Mr. D. S. Priestley and Mr. F. E. Burdett were appointed delegates to the Local Associations Conference. Mr. Priestley expressed the opinion that the expenses of the Pharmaceutical Committee should be made an administrative charge, and that chemists should concentrate on increased dispensing-charges rather than on increasing the establishment-charge. Mr. Burdett thought the revision of dispensing-charges might come by a reconsideration of the hour rate, which has been taken as 2s. an hour. He held that 4s. per hour is a more reasonable charge. Mr. Priestley said the purpose could be attained by fixing the dispensing-fee at 4d. Mr. Burdett thought the dispensing-fee should be the same for both 16-oz. and 8-oz. mixtures. Several references were made to the fact that Insurance dispensing is not spread over the day, but is mainly rushed into a couple of hours in the evening. This would influence the question of remuneration. The President said that "half-time" men receive from 1s. 3d. to 1s. 6d. per hour in London, and Mr. Thorpe added that he knew of two cases where 20s. was paid for ten hours per week. Mr. Burdett said, however, that it is impossible to get such assistance in Bradford. The rate of 2s. per hour originated, said Mr. Metcalfe, with the Pharmaceutical Society, and was first suggested by the Scottish chemists. The delegates were asked to consider the views expressed by the meeting. Mr. Bainton then raised the question of the charge for bottles in the case of cod-liver oil and emulsion. He had a difficulty in obtaining the charge from insured persons. The view was expressed by subsequent speakers that Tariff rates should be charged, especially as the price of bottles is so much enhanced at present. Some chemists, it was stated, still charge only 1d., against the Tariff charge of 2d. This practice the meeting condemned.

Cardiff.—A meeting of the Cardiff Pharmacists' Association was held on March 7, Mr. Lea (President) in the chair. After the correspondence had been dealt with, the proposal regarding the Proprietary Articles Trade Association made at the last meeting was brought forward and discussed. It was decided to send a communication on this matter to every local Association. The President mentioned that Mr. Hagon's term of office as a Councillor of the Pharmaceutical Society expires this year, and he proposed

that the Association adopt Mr. Hagon as their candidate for the election in May. The meeting agreed to give Mr. Hagon all the support possible.

Certificated Dispensers.—The tenth annual general meeting of the Association of Certificated Dispensers was held on March 7 in the Court Room, Apothecaries' Hall, London, E.C. The attendance was good. The Master of the Society, who presided, assured those present that they could, with confidence, rely on the moral and active support of the parent Society in all those matters which affected the present and future position of its "Assistants." The Hon. Secretary (Mr. F. E. Trayner) then submitted his annual report, which referred, among other matters, to a letter received from the Privy Council regarding the neglect of the Pharmaceutical Society to frame by-laws in accordance with Section 4 (b) of the Poisons and Pharmacy Act, 1908. Reference was also made to the replies received to a letter sent out to Local Associations in connection with the same matter; all the replies, it was stated, avoided the main point. The report was adopted. The meeting afterwards adopted resolutions calling attention to the necessity for a more direct access to the Apothecaries' Society by the representatives of the Association, and urging the Society to take action in the matter of an alleged libellous statement. The balance-sheet was submitted, showing a sum of 84l. 16s. 4d. standing to the credit of the Association. The Committee were re-elected *en bloc*, with two exceptions; Mr. Jas. Broughton (Woolwich) and Miss F. M. Harvey (Willesden) being elected to fill the vacancies. Votes of thanks closed the meeting.

Coventry.—The Coventry Pharmacists' Association at their last meeting emphasised the impossibility of coping with Insurance dispensing if chemists' staffs are further depleted by recruiting. One male assistant in each pharmacy, in addition to the principal or manager, should be allowed, it was agreed.

Essex.—At a meeting of the County of Essex Association of Pharmacists on March 7, Messrs. Matthews, England, and Goode were appointed delegates to the Local Associations Conference. It was decided to take steps to obtain a mandate of all chemists in the county by means of a signed vote on various questions. It was decided to get into closer touch with the chemists in Colchester, Chelmsford, and other districts with a view to promoting pharmaceutical unity and progress.

Grimsby.—At the meeting of the Grimsby Pharmacists' Association on March 6, Mr. C. Dewing (President), in the chair, explained that he had written to Mr. Woolcock for further advice regarding the proposal to restrict the sale of goods not British made or owned. Mr. H. W. Colley was appointed representative at the Local Associations Conference in May.

Halifax.—A meeting of the Halifax Chemists' Association was held on March 8, Mr. A. Taylor (President) in the chair. Mr. P. W. Swire was elected delegate at the Local Associations Conference. Members were recommended to sell tinct. opii, B.P. 1898, when laudanum is asked for, the minimum sale to be half an ounce for 3d.

Hampshire.—A meeting of the Hampshire Pharmacists' Association was held at Winchester on March 1, the President (Mr. A. E. Chaston) in the chair. Mr. White (Clerk to the Insurance Committee), who was present, stated that the cheques paid in February on account of the chemists' accounts for January represented 4d. per script. Referring to the question of "Rept. mist." he suggested that representatives of the Pharmaceutical Committee should attend a conference on this question, to be held in London, between members of the Insurance Committee, Panel Committee, and the Commissioners. Discussion then took place on a scheme for improving the organisation of the county, and it was decided to ask the Borough Associations to appoint delegates to meet the County Committee to consider the question of forming a united County Association. The meeting agreed to endeavour to educate the public to purchase as far as possible British-made goods. The Secretary asked for more support of the members for the Proprietary Articles Trade Association.

Leeds.—A meeting of the Leeds Chemists' Association was held on March 8, Mr. J. H. Beacock in the chair. A vote of condolence was passed with the family of the late Mr. G. T. W. Newsholme. The meeting could not agree to the suggestion of the Association of Certificated Dispensers that apothecaries' assistants should be admitted without examination to the Register of Chemists and Druggists. The recruiting problem was discussed, and Mr. Pilkington Sargeant explained the position, which has since been modified by the scheme explained in the *C. & D.* last week (p. 73). "Don't enlist in the R.A.M.C." was Mr. Sargeant's advice. Mr. Hall (Needham's, Ltd.) was

elected a member. The rest of the evening was devoted to a discussion, opened by Mr. Beacock, on *Do Chemists' Associations Benefit their Members?* which developed into a somewhat lively argument between Mr. M. A. Murray and other members as to whether or not a new scheme of the Association, whereby members have been asked to sign cards promising to abide by the majority decision on any subject when they cannot attend a meeting or when they are in the minority, gives proper scope for free thought. Mr. W. D. Pollitt, quoting Lord Melbourne, said, "It does not matter what the people think so long as they all think alike."

London (N.).—The North London Pharmacists' Association held the annual social evening on March 9 at Beale's Restaurant, Holloway. Mr. Herbert Skinner was M.C. A musical programme was followed by refreshments and a whist-drive. The winners were Mrs. C. W. Matthews, Mrs. Noble, Mrs. Giles, Mr. Boyes, Mr. Evans, and Mr. Lawson. Donations of 12*d.* were collected for the Orphan Fund, and Mr. Woolcock, who was present, acknowledged the liberality of the company.

Manchester.—A meeting of the Manchester Pharmaceutical Association was held on March 8, those present including Mr. J. H. Robinson (Liverpool) and Mr. Cecil Owen, B.Sc. (Chester). Mr. W. Kirkby, M.Sc., Ph.C., delivered an address entitled *A Pharmacist in America*. In the course of his remarks the lecturer paid a high tribute to the thoroughness and persistency of the American students of pharmacy and the high status which well-qualified pharmacists attain. The standard of qualification is, if anything, too high. The business-side of pharmacy was also referred to, and a visit to Parke, Davis & Co.'s works at Detroit was described. Mr. W. H. Delve (President), who was in the chair, proposed a vote of thanks to Mr. Kirkby for his lecture. Mr. Cecil Owen seconded, and Mr. J. H. Robinson supported in a characteristic speech. The vote was carried unanimously. Mr. Kirkby exhibited a series of photographs and advertising-matter which he had collected in the course of his visit.

Middlesex.—The Executive of the Middlesex Pharmacists' Association on March 8, Mr. Herbert Skinner (President) in the chair, adopted Mr. J. W. Deakin and Mr. H. Skinner as candidates for the Pharmaceutical Council election in May. Messrs. Skinner, Wolff, and Coulter were appointed delegates to the Local Associations Conference.

Newcastle-upon-Tyne.—A meeting of the Pharmacists' Association was held on March 8, Mr. H. W. Noble (President) in the chair. The correspondence dealt with the claims of apothecaries' assistants for registration as chemists, the formation of a Chemists' Union, and the adoption of a local price-list. Mr. T. Maltby Clague was appointed delegate to the Local Associations Conference. Mr. J. Walton Lee then gave a lecture on *Colour Photography*, which was well illustrated by lantern-slides taken on autochrome plates. A vote of thanks to the lecturer concluded the meeting.

Sheffield.—At the meeting of the Sheffield Pharmaceutical and Chemical Society on March 15, Mr. H. G. Williams in the chair, Mr. Bernard Ellis, barrister and pharmacist, read a paper on a *Pharmacists' Trades Union*. The present long hours of business, which do not allow any time to be devoted to thinking, organising, or discussion of trade matters, must be altered. Reviewing the past, the lecturer contended that no real progress has been made in pharmacy since the passing of the Pharmacy Act, 1868, but two factors had had a far-reaching effect—viz., company pharmacy and the increase in the sale of patent medicines. To tackle these collective action is needed. A cringing attitude should not be adopted in dealing with the Government, and further Parliamentary representation of pharmacists is needed. The speaker then dealt with the apprenticeship problem, and said that apprentices should be properly indentured for four or five years, and that a satisfactory apprenticeship should be a condition for entering for the Minor examination. The multiple shop is the real cancer in pharmacy, said Mr. Ellis, and he then outlined in vigorous language a scheme for a "Pharmacists' National Guild or League" which is to organise collective bargaining. What the trade unions have done for workmen such a guild could do for chemists, he contended. The first of the twelve objects of the guild is "Deal a death-blow to the multiple shop," and the last "Insist that the pharmacist shall practise pharmacy and the medical man medicine." A discussion took place, in which the President and Messrs. J. G. Jackson, A. H. Culverhouse, J. T. Appleton, and H. Antcliffe took part. The lecturer having replied, was given a vote of thanks for his paper. The meeting passed a vote of condolence with the family of the late Mr. G. T. W. Newsholme.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

With special reference to the supply of medicines and appliances.

ENGLAND.

Blackburn.—The Insurance Committee has sanctioned the arrangement for supplying priced prescriptions to the Pharmaceutical Society for checking-purposes. For the December quarter the prescriptions dispensed numbered 177,370 [203,157 in 1914], cost 5,329*l.* 9*s.* 10*d.* [7,212*l.* 17*s.* 11*d.* in 1914], and the average for the three quarters was 7,212*l.* [8,527*l.* in 1914]. The Panel Committee's report was an explanation of the reasons why the doctors charged with over-prescribing should not be surcharged. Complaint was made that the dispensing-fee is the same on 8-oz. and 6-oz. mixtures, that the large proportion of female patients involves a larger share of the doctors' attention, and that the system of supplying dressings conduces to waste. A Special Committee has been appointed to act in the matter of chemists requiring exemption from military service.—Over-prescribing by doctors was referred to at the Insurance Committee's meeting on March 14, when Mr. R. Lord Gifford, J.P., stated that, while it is not desirable to enter into a full discussion of this subject at this stage, he would like to say that the letter of the Panel Committee did not alter the fact that in 1913 the chemists were badly paid, and in 1916 they are to be worse paid. A Committee was appointed to confer with the military representatives regarding the enlistment of panel chemists. The flat rate for emergency dressings (1*s.* per 100 patients) was accepted by the Committee.

Bury.—Panel doctors are to receive 2½*d.* per 100 persons as an advance payment for emergency dressings. The remaining 2*d.* is to be paid, after adjustment, at the end of the year.

Devon.—At the meeting of the Insurance Committee on March 6, Mr. P. F. Rowsell, referring to the new pricing scheme, said that, although chemists had not had ample opportunity of discussing it, it had been agreed to accept the terms for twelve months. The Committee's share of the expenses of the South-Western Pricing Bureau is 157*l.*

Essex.—The Pharmaceutical Committee met on March 7, when it was decided to ask for a revision of the "Notes" on the memorandum used by Pricing Bureaus for preparations not on the Tariff, on the grounds that the list of preparations which receive only 1.8*d.* dispensing-fee includes a large proportion of articles not usually stocked by the pharmacist. The Secretary reported that the Essex County Council cannot agree to any other scale than the Tariff, 1916, for the payment of tuberculosis prescriptions. The Committee opposed the decision of the Commissioners that the payment for emergency dressings should be 1*s.* per 100 patients. The Panel Committee, it was reported, have not agreed to the proposal. The Secretary reported that a Dovercourt chemist has accepted service on the panel, so that in due course this district will cease to be a rural area. Messrs. Matthews, England, and Goode were appointed an Advisory Committee to act in conjunction with the Insurance Committee with regard to military service and exemptions for chemists.—The Insurance Committee also met on the same day. The Finance Sub-Committee recommended the payment to chemists for the quarter ended December 31 of 3,643*l.* 10*s.*, being 87½ per cent. of claims, and 1,256*l.* 16*s.* 6*d.* for January, this being at the rate of 6*d.* per script. The Pharmaceutical Committee's estimate of administrative expenses for the year, amounting to 520*l.*, was approved. Modifications in the agreement between the Insurance Committees included in the East Anglian Prescription-pricing Bureau were recommended to be sent to the Commissioners. In the case of a practitioner whose prescriptions were found by the Drug (Joint) Sub-Committee to have been extravagant the Committee agreed that 25*l.* should be deducted from the amount payable to the practitioner concerned.

Lancashire.—The Medical Benefit Sub-Committee report that after investigation of the complaint by the Pharmaceutical Committee regarding 120 doctors' over-prescribing, it has been found that this is not of such a character as to justify deductions from the doctors' accounts. The Panel Committee is to reconsider the matter.

Middlesbrough.—The Pharmaceutical Committee met on March 9, Mr. A. C. Gaddes in the chair. The nomination of a delegate to the Local Associations Conference in May was postponed. It was agreed that the profit on a pound of lint should be greater than on a one-inch bandage.

Middlesex.—The Pharmaceutical Committee on March 8, with Mr. Herbert Skinner in the chair, recommended that chemists whose accounts for December are unpaid should notify the Secretary. Chemists are asked to assist the prescription-pricers by sending in scripts classified according to the directions. A surplus on the 1915 accounts is expected.

Oxford.—Chemists are to be paid 6d. per prescription on account of January, the total payments amounting to 77l.

St. Helens.—At the meeting of the Insurance Committee on March 6, complaints were made as to the quality of the splints supplied. The Clerk said that only 8d. was paid for the splints, and the Chairman sarcastically remarked that at that price no one could make a fortune quickly.

Sheffield.—Nearly all the panel chemists have agreed that the Pharmaceutical Committee should undertake the checking of Insurance-prescription prices.

Sussex (E.).—The Medical Benefit Sub-Committee presented a memorandum to the Insurance Committee explaining why it is not practicable to settle chemists' accounts for 1915. The Commissioners' sanction is to be obtained before the accounts are settled.

Wolverhampton.—The Town Council, on March 13, elected Councillor J. H. Coleman, chemist and druggist, as one of their representatives on the Insurance Committee. There are now three pharmacists on that Committee—viz., Mr. F. J. Gibson, J.P., and Councillors Willcock and Coleman.

SCOTLAND.

Edinburgh.—Appendix II. of the Tariff for drugs, appliances, and dispensing-charges has been revised, and the prices arranged are to be charged as from March 1. The prices which are enhanced are those of drugs of which the supply is restricted owing to the war.

Glasgow.—The Clerk of the Insurance Committee is to take a census of chemists in the area, with a view to arriving at an understanding with the military authorities as to the minimum number of chemists required to maintain an efficient Insurance dispensing service.

Notes.

"NOTES FOR PRESCRIPTION-PRICERS."—The following corrections should be made in the article under this title which appeared in THE CHEMIST AND DRUGGIST, March 11, p. 80:

Line 9, for 700 read 7000.

Line 19, for 0.99714285 read 0.09714285.

MEMORANDUM VII., issued by the Drug Accounts Committee (Scotland), is a private and confidential "memorandum recommending the use of official and officinal drugs, chemicals, and preparations instead of proprietary drugs, chemicals, and preparations." The memorandum is by Mr. A. B. Gilmour, Superintendent of the Central Checking Bureau, Glasgow.

Australasian News.

"The Chemist and Druggist" is supplied weekly to all the members of eight Chemists' Societies in Australia and New Zealand.

The Commonwealth.

ENEMY FIRMS.—The firms of Lohmann & Co. and A. Wulff & Co. have been proclaimed enemy firms.

IMPORT PROHIBITION.—By a Proclamation published in the "Gazette" the importation into the Commonwealth is strictly prohibited of an appliance known as "Hypno-magnetic Vibrant," and of any printed matter relating thereto issued or published by Norman Barclay, Argyle House, Kensington 11th Street, London.

BUREAU OF SCIENCE AND INDUSTRY.—The Committee of Representatives of the Government, the Universities, and Chambers of Commerce of the Australian Commonwealth have reported in favour of the foundation of a Bureau of Science and Industry with a view to organising and developing scientific and industrial research within the Commonwealth.

THE ASPIRIN TRADE-MARK.—Decisions have been given in the case of two applications for the suspension of the registration of the Aspirin trade-mark. That of Evans Sons Lescher & Webb (Colonial), Ltd., London, E.C., and elsewhere, has been refused. In the case of Arnold Nesbitt Macnicol registration is suspended in favour of the applicant, subject to a bond in an amount and with sureties to be approved by the Minister.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

MILITARY SERVICE ACT.

Mr. Glyn-Jones (Stepney) (writes our Parliamentary correspondent) has been asking several questions this week of Mr. Tennant in regard to the position of married men, and other questions under the Military Service Act.

DENTISTS IN THE ARMY.

Mr. Tennant, Under-Secretary for War, informed Major Newman, on March 9, that Section 30 of the Dentists Act, 1878, does not give exemption from the provisions of the Military Service Act. The latter does not apply to service in the Militia, but to service in H.M. Regular Forces.

ANILINE DYES.

Replying to questions asked by Sir R. Cooper in the House of Commons on March 9 regarding the supply of aniline dyes from Switzerland (see C. & D., March 11, p. 80), Mr. Runciman replied that he is not aware of any basis for the suggestion that the Swiss makers of dyestuffs are sending German dyestuffs to this country, or in any way acting as intermediaries for German firms, and he has no reason to suppose that any contracts which British consumers may make with the Swiss firms will have the result suggested.

Sir Richard Cooper, on March 14, asked the President of the Board of Trade what were the total imports and exports of aniline dyes and oils in Switzerland, Holland, Sweden, and the United Kingdom during the years 1913 and 1915.

Mr. Runciman replied that no particulars are available for the Netherlands, and no particulars are available for 1915 for any of the countries specified. In 1913 the quantities imported were 698 tons into Switzerland, 960 tons into Sweden, and 14,151 tons into the United Kingdom. The exports were 7,035 tons from Switzerland, nil from Sweden, and 2,434 tons from the United Kingdom.

UTILISING PEAT.

Mr. William Field, on March 14, asked the Vice-President of the Department of Agriculture (Ireland) whether it has been demonstrated in Sweden and Germany that paper-pulp can be profitably produced from peat, and that ammonia sulphate, alcohol, paraffin-candles, paving-blocks, antiseptic bandages, clothing, and cattle-fattening food have been obtained from the bogs in these countries; and whether, in view of the area of bog in Ireland, the Department will arrange and carry out experiments in suitable places to endeavour to utilise those potential resources of industry from the idle morasses of the country.

Mr. T. W. Russell replied that it is understood that attempts were made on the Continent to manufacture paper-pulp from peat, but it is not known if these were commercially successful. Some of the products referred to have been made from peat, either alone or in combination with other substances. Irish sphagnum moss is at present being prepared in the laboratories of the Royal College of Science, Dublin, by voluntary aid for surgical-dressing purposes. Peat mull or powder is used in connection with cattle-feeding materials. This product is being made in Ireland. Owners of peat-industries now at work in Ireland are fully alive to the desirability of introducing any additional branch of the peat-industry which could be profitably worked on a commercial basis.

Who Said This?

Report on the February Competition.

No increased interest was shown in this competition last month, and we have therefore decided to discontinue it for the present in favour of other and more important claims upon our space. The quotations for February were as follows:

"Prevention is the art of policy."

Marston (*The Malcontent*).

"She arrived at the drug-flavoured region of Mincing Lane with the sensation of having just opened a drawer in a chemist's shop."

Dickens (*Our Mutual Friend*).

"Do Fortune what she can,

The gentle craft is living for a man."

Dekker (*The Shoemaker's Holiday*).

"Men talk of Catholicism, the drug that is instead of all purges."

Preface to the Bible (1611).

Mr. R. L. Morris, F.I.C., with Fry & Co., Brighton, traced two of these, but no other competitor was successful in more than one instance.

Trade Notes.

A COMPACT FORM of hair or cloth brush is shown on "Maw's Page," and other saleable novelties are mentioned.

RIBBON GAUZE in various widths and lengths of roll is advertised in this issue by W. G. Taylor, Charford Mills, Birmingham.

THYMOL.—Smith, Stanistreet & Co., 9 Dalhousie Square, Calcutta, send us a sample of thymol, B.P., of Indian manufacture, which they are in a position to supply in quantity to wholesale buyers.

POTEX.—The "Sanitas" Co., Ltd., Limehouse, London, E., have introduced a new remedy for rheumatism under the name of Potex. It is put up in bottles which retail at 1s. 3d. and 2s. 6d.

MESSRS. LEVERS, wholesale manufacturing chemists and glycerin-packers, have removed from 56 and 58 Chapel Street, Manchester, to more commodious premises, and their new address is Elver Works, Moreton Street, Manchester.

RUSSIAN LIQUID PARAFFIN.—A specimen of Russian liquid paraffin has been sent us by the Pure Russian Liquid Paraffin Co., Ltd., 3 St. Helen's Place, London, E.C. It is water-white, tasteless, and odourless, while the viscosity is high, all of which properties mark it as suitable for internal use.

GLYCERIN-SUBSTITUTE.—Those in search of a substitute for glycerin in toilet-preparations should procure samples of nulomoline from Fredk. Boehm, Ltd., 16 Jewry Street, London, E.C. Nulomoline appears to be a non-crystallisable sugar-product. It is a thick liquid with hygroscopic properties.

THE DAILY PRESS exaggerated the extent of the fire at the premises of Suttley & Silverlock, Ltd., chemists' printers, Blackfriars Road, London, S.E. The company show in their advertisement the extent of the premises involved, which has not interfered appreciably with the work of the establishment.

CHEMICALS AND PHARMACEUTICALS.—The old-established firm of Lazard Godchaux, of Brussels, dealers in aniline dyes and chemicals, have formed an English company, under the name of The Lazard Godchaux Co., Ltd., Walter House, 422 Strand, London, W. The Brussels business is now closed, as well as their branch in Vieux-Condé, in France. In this issue the company enumerate some of the chemicals and pharmaceutical products in which they specialise.

D. & O. PEPPERMINT OIL.—The Dodge & Olcott Co., of New York, London, etc., have issued their annual chart of prices of American peppermint oil, which records the fluctuations for the past twenty-two years (1894-1915). During this period the annual consumption of American oil has probably increased from about 200,000 lb. to approximately 400,000 lb., the crops varying between 200,000 lb. and 600,000 lb.—the latter in the "bumper year" 1914. Copies can be obtained from the London office, 20 Mark Lane, E.C.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1916, p. 365.

(From the "Trade-marks Journal," March 8, 1916.)

Triangular device, including letters "F. E. F"; for sodium peroxide, etc. (1). By Aktieselskabet Fredriksstad Elektrokemiske Fabriker, Fredriksstad, Norway. 370,915.

"OSBEARE" and "OSBEROL"; for chemicals (2). By T. Keating, 50 Union Street, Southwark, S.E., and Lieutenant-Colonel D. R. O. Beare, Officers' Quarters, Netley. 371,308/9. (Associated.)

"GORTEX"; for a gallstone herbal medicine (3). By H. C. Prince, 22 Musters Road, West Bridgford. 370,267.

Device of globe and triangle, with word "BRIGHTON"; for medicinal chemicals (3). By A. H. Cox & Co., Ltd., Brighton. 370,916.

"LICRO"; for medicine (3). By Cupal, Ltd., King Street, Blackburn. 370,930. (Associated.)

"SYLVOCEPT"; for medicinal chemicals (3). By T. Roberts, 33 Deane Road, Bolton. 371,369.

Monogram "G. G. S."; for mustard-plasters (3). By Guyot Guenin & Son, 67 Southwark Bridge Road, S.E. 371,380.

"BLACK CROSS," with picture of Maltese cross in black; for surgical dressings, etc. (11). By Leslie, Ltd., 18 Eldon Street, E.C. 370,871.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., March 16, 6.30 p.m.

A FAIR AMOUNT of business has been done in the chemical and drug markets, but the scarcity of many items of produce continues unrelieved, and the difficulties and delays in obtaining delivery are increasing daily in view of the fact that we are dependent upon abroad for most of our supplies. This week the scarcity of citric and tartaric acids has become acute, and at the moment the spot markets are practically bare. Bismuth salts have been advanced by 1s. per lb., but makers' prices are nominal. Citrates are 4d. per lb. dearer; acetylsalicylic acid and formaldehyde are very scarce. Castor oil is cheaper, and new Norwegian cod-liver oil is irregular, with buyers holding off. Chinese galls, lime oil, pimento, and ginger have been sold at advanced rates. Menthol and Japanese mint oil have sold freely on c.i.f. terms.

Higher	Firmer	Easier	Lower
Anise (Sp.)	Bergamot oil	Cod-liver oil	Ammonia sulphate
Citric acid	Cottonseed oil	Hydroquinone	Castor oil
Cloves	Formic acid	Linseed oil	Quinine (sec. hands)
Cream of tartar	Gingers	Peppermint oil (Amer.)	
Ferri et ammon. cit.	Hexamine	Salicylic acid	
Formaldehyde	Menthol		
Glucose	Mint oil (Jap.). (c.i.f.)		
Mustard-seed	Palm oil		
Oxalic acid	Shellac		
Pimento	Soya-bean oil		
Potash citrate	Wax, veget. (Jap.), (c.i.f.)		
Pyrogallie acid			
Soda citrate			
Soya oil			
Tartaric acid			
Turpentine oil			

Cablegrams.

BERGEN, March 10.—The cod-fishing results, although small, have improved during the last few days. Market is quiet, buyers having withdrawn, and the quotation for finest new Lofoten medicinal oil is nominal at about 485s. c.i.f. London.

BERGEN, March 16.—The Lofoten cod-fishing has been favoured by calm weather, but the results are below expectations. Market for finest new medicinal oil is quiet, and buyers will not offer more than 425s. per barrel.

NEW YORK, March 16.—Business in drugs is fair. Cartagena ipecacuanha is lower at \$2.90. Copaiba balsam is dearer at 60c. per lb. Gentian-root is easier at 29c., and serpentine-root has been reduced to 30c. Oregon fir balsam has advanced to 80c. Buckthorn-bark is steady at 75c., and balsam peru is lower at 75c. Belladonna-leaves have advanced to \$1.50 per lb.

ACETANILIDE.—Still tending higher at from 8s. 9d. to 9s.

ACETYSALICYLIC ACID.—Owing to the difficulty of procuring acetic anhydride in sufficient quantities makers in this country make slow progress, and it is difficult to get offers; 48s. 6d. net is quoted in quite small quantities.

AMMONIACUM.—Sales of fair slightly drossy block and drop have been made at 75s.

AMMONIA SULPHATE is 5s. lower at 16l. per ton net naked at works London for 25-per-cent. ammonia for prompt delivery; Hull prompt is 16l. 12s. 6d., Liverpool is 16l. 15s., and Leith is 16l. 17s. 6d. per ton, less 3½ per cent. in bags f.o.b.

ANISE OIL (STAR).—Steady, with a fair business in "Red Ship" brand at 3s. 4d. spot; sellers of April-May shipment quote 3s. 3d. c.i.f.

ANISEED is dearer again, the quotation for good Spanish having been raised to 55s. per cwt. At auction last week ten cases good Chinese sold at 80s.

BERGAMOT OIL.—Rather firmer, at from 13s. to 13s. 6d. c.i.f., according to ester-content; spot is about 13s. 6d.

BISMUTH SALTS.—Following on the advance in metal the price of salts has been raised 1s. per lb., but makers' quotations are nominal. From second-hands, dealers quote carbonate at 17s. to 18s., subnitrate 15s. to 16s. 6d., salicylate 27s. to 27s. 6d., and subgallate 15s. 6d. to 16s. per lb. net.

BROMIDES.—Although the demand is not active at the moment, the present easier tendency is only regarded as temporary, in view of the large demand which has to be filled sooner or later. Moreover, the supplies in the United States are extremely short, so that the present high values are likely to be maintained. The second-hand prices are practically on a level with those of makers—say, 24s. 6d. to 25s. for potassium, 17s. to 18s. for sodium, and 21s. 6d. to 22s. 6d. for ammonium.

CALABAR BEANS.—Small sales have been made in Liverpool at 6d. to 6½d. per lb.

CAMPBOR (REFINED).—Arrival prices are firm, Japanese slabs for March-April shipment offering at 1s. 7d. to 1s. 7½d. c.i.f., and ¼-oz. tablets at 1s. 9d. c.i.f. The spot value of slabs is 1s. 8d. to 1s. 8½d.; ¼-oz. tablets have been sold at 2s. 3d.

CAMPBOR OIL.—Japanese white in tins and cases is offered at 65s.

CANARY-SEED is unchanged at 79s. to 82s. per quarter for ordinary to good quality Morocco.

CARAWAY-SEED is firm at 61s. to 63s. per cwt. for ordinary to good Dutch.

CASCARA SAGRADA.—The arrivals which take place from time to time in spite of shipping difficulties appear to prevent the spot market from advancing; prices are from about 55s. to 60s. as to age. Stocks on spot are about 130 tons.

CASTOR OIL is lower, good seconds Calcutta offering in Liverpool at 7d. to 7½d. per lb. for spot parcels. English of first pressing is about 78s. to 80s. in London. For July-August (e.m.q.) delivery, English make of the first pressing is 62½., and July-December (e.m.q.) 61½. 10s. per ton in barrels f.o.r. Hull, usual terms; medicinal quality is 4½. per ton over the price of firsts. 100 cases Italian have arrived; it is very difficult to get offers of this description. The Government has recently placed some large orders for castor oil, and prices are expected to go dearer later.

CHILLIES.—Sales of good Sierra Leone have been made in Liverpool at 130s.

CHIRETTA.—Owing to higher freights, sellers are asking 7½d. per lb.

CINCHONA.—The auction to be held at Amsterdam on March 30 will consist of 1,236 packages pharmaceutical bark, weighing 66,808 kilos. The first-hand stock at Amsterdam on March 9 consisted of 9,721 packages Government and 34,280 packages private bark, including the first-hand packages to be offered on March 29 and 30. At the London auction on March 14, 162 packages offered and sold, comprising 130 packages Calisaya at 11½d. to 1s. for fair broken quill, and 1s. 2d. to 1s. 10d. for bold flat; 32 bales East Indian sold at from 7½d. to 7½d. for crown stem chips.

CITRATES.—Makers' prices have been advanced by 4d. per lb. Ferri et ammon. cit. and/or sodium citrate is 3s. 7d. in 28-lb. lots, the list-price being 3s. 8d. Potassium citrate is 5s. 2d. in 28-lb. lots, the list-price being 5s. 3d.; all prices are without engagement.

CITRIC ACID is almost unobtainable in the open market, and is in the same position as tartaric, dealers being "sold out"; 3s. 5d. is the nominal quotation. American make for April-May delivery is quoted 3s. 6d. net c.i.f.

CLOVES are dearer, with fair spot sales of Zanzibar at from 7½d. to 7½d.; to arrive, the sales include February-April at 7d. to 7½d. c.i.f., and April-June delivery at 7½d.

COCAINE.—For actual spot delivery, which is very scarce, 25s. per oz. net is asked for hydrochloride.

COD-LIVER OIL.—There is evidence of very little buying of new oil so far, and consumers appear content to wait developments. Current requirements can be filled from parcels of 1915 oil on the spot, which offer at about 47s. per barrel and upwards. For the new oil the bulk of agents' prices appear to be without engagement and are irregular, varying from 450s. to 525s. per barrel c.i.f., but we do not hear of any business at these prices. Our Bergen correspondent writes on March 6 that there is no material

change in the situation, the cod-fisheries showing continued small results and a rather fair yield of oil. The official reports give the following totals:

Lofoten.				
	1913	1914	1915	1916
Catch of cod (millions) ...	2.0	3.9	4.5	2.1
Yield of c.l.o. (hect.) ...	1,300	3,300	4,000	2,900

Whole of Norway.				
	1913	1914	1915	1916
Catch of cod (millions) ...	12.2	18.1	16.5	7.8
Yield of c.l.o. (hect.) ...	9,400	15,400	16,100	11,000

Unrefined oil is still being sold at rising prices, calculated at not far from 510s. per barrel c.i.f. for prime new non-congealing oil. The lots of new oil which have arrived and sold at such fancy prices are very limited, however, and the market was perhaps a little weaker during the last two or three days. An Aalesund advice dated March 7 states that during last week the catch continued rather poor in most districts, and there appears to be on the whole little fish on the fishing grounds. Up to March 4 the catch, the output of cod-liver oil, and the quantity of liver for natural oil in the whole of Norway amounted to 7,900,000 cod, 11,063 hect. cod-liver oil, and 1,538 hect. liver, against 16,500,000 cod, 16,136 hect. cod-liver oil, and 3,240 hect. liver in 1915 at the corresponding date.

COPPER SULPHATE is firm at from 47½. 10s. to 48½. per ton for the usual Liverpool brands.

CORIANDER-SEED is unchanged at 17s. 6d. to 19s. per cwt. for ordinary dull to good bright Morocco.

CREAM OF TARTAR.—Holders ask an advance of 2s. per cwt.—now 195s. for 98-per-cent. powder.

CUMIN-SEED is in demand, but there are no supplies of good quality on the market. The nominal value is 95s. per cwt. for clean Morocco.

ELEMI.—Small sales have been made at 100s. for fair yellowish.

FENNEL-SEED is unchanged at 32s. 6d. per cwt.

FENUGREEK-SEED is firm at 12s. 6d. to 12s. 9d. per cwt. for fair Morocco.

FORMALDEHYDE.—Owing to the recent heavy buying the spot market is very bare. Those who have stock are holding up the price, but a fair quantity is on the point of being shipped from New York, from whence 65s. per cwt. is quoted for 40-per-cent. in casks, when cargo-space is available. The price of methyl alcohol in the United States has advanced 50 per cent. to 95 cents f.o.b. per American gallon, but the price of formaldehyde has not yet advanced in the same proportion, so that there is room for further improvement.

FORMIC ACID is firmer at 170½. per ton for 90-per-cent.

GALLS.—Chinese are higher, the sales including March-April shipment at 88s. 6d. c.i.f. Small sales of good Persian blue have been made at 145s. on the spot.

GINGER is firm and tending higher: sales of good washed Cochín have been made up to 46s., with 47s. asked; also C. at 57s. 6d. to 60s., and B. at 87s. 6d. In Liverpool, sales of Sierra Leone have been made at from 39s. to 40s.

HEXAMINE.—Prices vary from 3s. 9d. to 4s. 3d. per lb. net as to quantity and holder. Some large orders have been placed lately.

HYDROQUINONE.—Current values are from 35s. to 37s. 6d. per lb. net.

IPECACUANHA is quiet at from 20s. to 21s. for Matto Grosso, and Cartagena at from 13s. to 14s. as to quality.

LEMON OIL.—Prices for prompt shipment are a trifle firmer at from 3s. 6d. to 3s. 8d. c.i.f., and spot is 3s. 6d. to 4s.

LIME OIL.—West Indian distilled has been sold at 9s. net on spot; hand-pressed is 8s. 6d. net.

LINSEED is quoted 75s. per quarter for River Plate and 92s. 6d. for Morocco.

MENTHOL is firm, with good sales of the Kobayashi-Suzuki afloat at 12s. 6d. to 12s. 9d. per lb. c.i.f.; also February-March at 12s. 3d. and March-April at 12s. 1½d. c.i.f. The spot price is 13s. 3d. to 13s. 6d.

MINT OIL.—Several hundred cases Japanese dementholised oil have been sold to arrive, March-April shipment, at 4s. 1½d. per lb. c.i.f., also afloat at 4s. 3d. c.i.f. The spot price is 4s. 6d.

MUSTARD-SEED.—Good English yellow is almost unobtainable; a sale is reported at 68s. per cwt., being considerably dearer.

OILS (FIXED).—*Linseed* is dull at 44s. in pipes and 44s. 9d. in barrels on the spot; March, 44s. 6d. *Cottonseed* is 1s.

firmer at 43s. 6d. for crude in pipes, 48s. 6d. for refined in pipes, and at from 52s. to 53s. for sweet refined in barrels, all on spot. Ceylon *Coconut* is firm but quiet at 60s. in hogsheds and 58s. in pipes, both on spot; Cochin is 60s. to 62s. on spot, and London pressed is 51s. 6d. to 52s. Ordinary brown crude *Rape* is scarce and nominal; British refined in barrels is 55s. to 56s.; Japan in cases is 47s. c.i.f. afloat. *Soya* oil is dearer at 38s. 3d. for Manchurian in cases on passage, and 36s. 3d. for February-March. Hull (spot) extracted and crushed is firm at 42s.; Lagos *Palm* is 1s. firmer at 48s. 6d. spot, and in Liverpool 43s. is quoted. Chinese *Wood* to arrive is quoted at from 45s. to 47s. 6d. per cwt. c.i.f.

OXALIC ACID is dearer, at from 1s. 7d. to 1s. 8d. in casks.

PEPPERMINT OIL.—For autumn shipment good brands of American tin oil are offered at 8s. 6d. per lb. net c.i.f., being slightly easier. Spot prices are also a trifle easier at from 8s. 9d. to 8s. 10½d.

PHENACETIN.—The value is about 66s. per lb.

PHENAZONE.—Current values are from 70s. to 72s. per lb. Some ask more.

PILOCARPINE.—For a good French make of hydrochloride, arrivals of which have taken place. 21s. per oz. net is quoted, and the demand is difficult to satisfy; nitrate is offered at 15s. to 19s. per oz. net.

PIMENTO is higher, sellers asking 4½d. on spot; second-hands can shade this price.

POTASH CHLORATE.—Powder to arrive is quoted at 2s. 4d. in kegs; crystals are in better supply.

POTASH PERMANGANATE.—August delivery is quoted 3s. 6d. on rails at works.

PYROGALLIC ACID is dearer, at 11s. 6d. for resublimed.

QUININE.—The speculative market continues idle, with sellers of the usual brands of sulphate at from 3s. 6d. to 3s. 9d. per oz. Prices in makers' hands remain firm, with no prospect of a decline, and with fair supplies available orders can be booked for April delivery.

RHATANY.—Sales from a recent arrival have been made at 75s. per cwt.

SALICYLIC ACID.—Quotations continue to show much irregularity, and some very low prices are current for English make of salicylic acid, but the trouble is that no commercial quantities appear to be available, and it is difficult to get beyond laboratory samples. Small lots of English B.P. acid are obtainable at from 18s. 6d., rising to 20s. 6d. for American (U.S.P.).

SENNA.—A fair quantity of Alexandrian siftings recently arrived, for which holders ask 9d. to 10d.

SHELLAC is firm but quiet, with small sales on a basis of 91s. to 92s. for the usual standard TN quality, good 93s., and fine 102s. 6d.; fine orange is 110s. to 115s., AC Garnet 87s., and GAL 82s. 6d. Futures, although irregular, are dearer on balance, sales including March at 91s. to 92s. 6d., May 92s. 6d. to 94s. 6d., to 94s., and August 96s. to 95s. 6d.

SODIUM SALICYLATE.—Recognised Continental makes are very firm and rather dearer, from 21s. to 21s. 6d. per lb. being asked. American can be had at 19s. 6d.

TARTARIC ACID.—Present spot scarcity was hitherto unknown, and the quotation is nominal at 3s. 4d. to 3s. 5d. Forward offers are few, buyers not caring to quote owing to the uncertain conditions regarding cost of freight, insurance, etc.

TERPINEOL.—Fair sales have been made at 3s. 6d. per lb.

TURPENTINE has advanced 2s. 6d. per cwt. to 49s. 9d. for American on the spot.

American Shipping Difficulties.

Several firms of American importing houses in London have been good enough to show us various letters and cables received from New York, which show that the shipping conditions to U.K. ports are very serious, and it is practically impossible to obtain space. There is also considerable railroad congestion (said to be the worst known for fifteen or twenty years) in forwarding goods to New York, while storage with railroads is practically impossible. The expenses for private storage and handling are also very heavy. These unusual conditions add seriously to the cost of the imported article, and are likely to affect values. We should not be surprised if endeavours were made to remedy matters from this side in the matter of cargo space.

Continental Drug and Chemical Markets.

ALCOHOL.—The Centrale in Berlin has advanced the price by m.50 per 100 kilos. for absolute, equal to m.60 per 100 kilos. for 94 to 95 per cent.; all galenicals follow.

BROMINE PREPS.—Very active, but demand can only be partly supplied. Most of the inquiries are for speculative purposes.

CANDLES.—The scarcity of raw material is paralysing business. Moreover, the use of tallow for soap and candles has been prohibited, so that it is possible that makers will be obliged to cease business.

DEXTIN.—The factories have ceased working; their stocks are cleared, and no raw material is available.

FILTER-PAPER.—The prices are now 140 per cent. higher than these paid before the war.

GALLIC ACID has advanced to from m.690 to m.700 per 100 kilos., galls being very scarce.

GUINEA GRAINS.—After a lengthy period of neglect, demand is now increasing, as the prices of cardamoms and pepper are so high. Prices have also advanced, and they are expected to advance further, as it is still much cheaper than other spices.

LEAD-PREPS. have again been advanced by the Syndicate, powdered white-lead by m.17, and oil white-lead by m.23 per 100 kilos.; the actual prices are m.113.50 per 100 kilos. for pure powdered and m.158.50 per 100 kilos. for pure oil white-lead.

OXALIC ACID has advanced twice. The makers can only supply old customers with immediate wants. Prices are: Crystals, m.87.50; powdered m.97.50; binoxalate crystals, m.110; powdered, m.115; neutral oxalate, m.110.

STRYCHNINE is very scarce; makers have advanced prices by m.11 per kilo. to m.84 to m.87 per kilo. for nitrate.

VANILLIN.—Second-hands offer at from m.97 to m.98 per kilo.

WAX (JAPANESE) has been active, and m.400 per 100 kilos. has been paid.

WAXES.—*Bees'* is not offered; the nominal value has advanced by 5 per cent. *Carnauba* is very scarce at m.580 to m.600 for fatty grey. *Japanese* is active at m.475 for prompt.

Arrivals of Chemicals, Drugs, etc.

DURING the period March 8 to 14 inclusive the following produce has arrived in the English ports named. Goods in transit are not included. The figures refer to the packages—e.g., cases, bags, barrels, boxes, kegs, etc. The weights, when known, are specified:

To London.	Herbs (Jap.) 25	Coconut oil 500
Aconite (Jap.) 27	Indigo 282	Cr. of tart. (Sp.) 47
Albumen 97	Insect fl. 30	brls. 12 kgs., (Fr.)
Alcohol, wood 672	Juniper b. 353	11 cks.
Aloes (N.Y.) 50 cs.	Lemon-juice 76 pps.	Essent. oil (N.Y.) 10
Anise (Sp.) 100,	Lemon oil 22 cs. 40	Glucose 477
(Fr.) 20	Linseed (R. Plate)	G. almed. 87
Antimony 2,473	120,489, (Cal.)	G. copal 25
Argol (Sp.) 705	21,695	Iodine 522
Arrowroot 3,128	Menthol 20	Ipecac. (Rio) 12
Arsenic (Port.) 152	Milk-sugar (It.) 50	Lactic ac. 68
Barytes 575	Mint oil (Jap.) 115	Lime-ju. 17 hds.
Bellad. root (Fr.) 20	Nut oil 1,262	Linseed 43,849
Bergamot oil 25 ½ cs.	Olive oil (Fr.) 153	Molasses 4,062 tons
Boric ac. (It.) 280	cs. 59 brls. 67	Olive oil (Fr.) 65 cs.
Calc. carbide 2,500	cks., (It.) 25 cs.	Palm kern. 28,163
Calc. chlor. 86	Orange oil (It.) 5 cs.	bgs. 92 tons
Camphor 100	Orange-peel 84	Palm oil 2,588
Camphor, cr. 575	Orris (It.) 77	Perf. spirits (Fr.)
Camphor oil 100	Oxalic acid 9	17
Caraway-seed 450	Peppermint oil 10	Potashes 14
Cardamoms 44	Perfumery (Fr.) 36,	Quebracho 41,000
Cascara (Phil.) 241	(Amst.) 10	Saltpetre 982
Cassia 88	Quinine (Amst.) 59	Tartar (Fr.) 194
Cassia oil 30	cs.	Turps 350
Castor oil (It.) 100,	Rape oil 5,000	Wax, bees' (Rio) 92
(E.I.) 700	Roots, barks, etc.	
Chem. prod. (Fr.) 74	(N.Y.) 17, (Fr.) 609	
Citric acid (Palermo)	Saccharin (Fr.) 5	
cks. 236	cks.	
Cochineal 92	Saltpetre 2,412	
Coconut oil (Cey.) 42	Sandalwood 250	
pps. 8 pns. 9 hds.	Shellac 2,954	
Copra 36,997	Soda nitrate 3,525	
Corros. sub. (U.S.A.)	tons, 3,617 bgs.	
100 bxs.	Sodium metat 100	
Cream of tartar	Soy 50	
(Fr.) 76 cks., (It.)	Soya oil 5,500	
200 brls., (Palermo)	Tamarinds (E.I.) 100	
58	Tartaric ac. (It.) 350	
Drugs and chems.	Vanilla (M'selles) 13	
(N.Y.) 47	Wax, bees' (Fr.) 11,	
Essent. oils (R'dam)	(Fr.) 34	
19, (It.) 30 pkgs.,	Wax, vege. 100	
(H.-Kong) 170		
Eucal. oil 92		
Fennel 51		
Fig syrup 2,700		
Geranium oil (Afr.) 7		
Glucose 1,000		
G. copal 233		
G. damar 14		
G. kauri 52		
G. thus 30 brls.		

To Liverpool.

Ammon. anhy. 200
Antimony 15,354
Barytes 1,000
Bismut. ore 275
Calc. cit. (W.I.) 10
Castor oil 1,376
Cinchona 126
Cochineal 129

To Bristol.—Glucose 3,120, ground-nuts 1,030 tons. To Grimsby.—Betanaphthol (Fr.) 12. To Folkestone.—Drugs (Fr.) 73, perfumery (Fr.) 197, perfid. spirits (Fr.) 33.

To Manchester.

Dextrin 1,040
Farina 160
Soda nitrite 36
Tartaric ac. 48

To Hull.

Barytes 250
Boric ac. (It.) 79
Chem. prod. (Norway) 200 kgs. 140
cs.
Cod l. oil 145
Cottonseed 2,561 tons
Cream tart. (Fr.) 20
Fustic 377 tons
Glycerin (Amst.) 104
Jms.
Lactic ac. 17
Linseed 310,383
Logwood 2,335 tons
Olive oil (Fr.) 67 cs.,
(Sp.) 837 brls.
Oxalic ac. 25
Palin kern. 35,618
bgs. 1,036 t.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Soap as a By-product.

SIR,—In your leader in your last issue, under the above heading, you inquire:

"What is to prevent the glycerin-manufacturer still exporting his by-product soap at a reduced price, and beating the Americans on their own ground?"
The reply is, Duty. Here soap is admitted free of duty, whereas in the U.S. the duty on household soap is 20 per cent. *ad val.*, and on toilet-soap, scented, 50 per cent.

Yours faithfully,

THE CROWN PERFUMERY CO.

Sidney Road, Homerton, N.E.

SIR,—My attention has been called to the editorial article, under the above heading, appearing in your issue of March 11, and I trust you will allow me to correct what might otherwise cause considerable injury to the soap-trade generally. First of all, our duty as a trade is, during the war, to look upon glycerin as the product. The quantity required by the Ministry of Munitions for munitions-purposes is in excess of the normal output, and as every pound of soap coming from abroad interferes with the production of glycerin here, you ought to readily see that the prohibition of foreign soaps is not only a necessity, but if you are imbued with the same patriotic feelings as exist in the soap-trade, you will bring to bear whatever influence you have upon your various clients to carry out the advice I ventured to give in my remarks to my shareholders—viz., that it was the duty of everyone to abstain from purchasing foreign soaps during the war. The best reply I can give to the latter part of your article is that all the soapworks of any importance in the country are now controlled, and that any excess profit made by soap-makers goes to the Government.—Yours truly,

JOHN KNIGHT, LTD.

London, E., March 13.

JOHN W. HOPE, Chairman.

What is Cost-price?

SIR,—Your correspondents Mr. G. Kennedy and "Beta" are perfectly right; you cannot, as they agree, get twenty separate ounces out of a pint of glycerin. The Tariff assumes you can. Some allowance in the future for such wastage must be insisted upon. "Xrayser II." makes a curious point in your current issue. He argues that it is wrong to criticise the Tariff "on a business or commercial basis." His reason, he explains, is because selling at cost price, *plus* a fee, is a professional basis. But he is mistaken; various industries are worked on the latter principle. I can name one of the largest firms that builds its steamers on this basis. However, is not this argument beside the point? Here we have to supply goods and put through a lot of work on a basis of "cost price, *plus* a dispensing-fee." It may be that the latter at present is not sufficient. This is not my immediate concern. The question of the dispensing-fee cannot be prejudiced by removing an obvious anomaly in the matter of the cost. I think that in this correspondence the present system of taking the "net wholesale price" as the true "laid-down cost-price" has been clearly shown to be a fallacy. This anomaly can be put right by insisting upon a "subject" wholesale list being taken as a basis for the cost instead of a "net" list, as I explained in some detail in my previous letter. Delegates from Local Associations should be instructed to press this point when they meet in London in May.
Yours truly,

ALPHA. (91.19.)

SIR,—"Beta" is encouraging, but not quite correct. So far as Liverpool is concerned, the chemists as a whole were very dissatisfied, and strongly inclined to rebel, but allowed themselves to be persuaded to continue service, stipulating that materially improved terms must be offered next year. Now, do not let us forget that, having accepted, we are bound by contract for twelve months. The official remedy for relief is to prove that the establishment-charge of 0.8d. is insufficient. I say there is no hope of better terms in this direction. As a matter of fact, 0.8d. does actually cover establishment-charges, reckoned by the Commissioners' method. We all know that the method is wrong, but on our behalf the terms were accepted by our representatives,

and therefore are binding. The whole Tariff is wrong: cost-price and establishment-charge were accepted conditionally that dispensing-fees were sufficiently large to compensate for loss of profit on drugs. Instead of being increased, the fees on mixtures, etc., which form the bulk of dispensing under the National Health Insurance, were actually reduced on the larger quantities, so that if a doctor orders a pint of cod-liver-oil emulsion our actual gross profit is less than 10 per cent., therefore does not pay working-expenses alone. Some time ago I showed that the maximum average profit per prescription was 2d.; therefore a pharmacy dispensing 10,000 scripts per annum receives in total fees less than the salary required by the dispenser. It follows that such business can only be run at a loss. Then one asks: Why go on the panel? The answer is easy: In working-class neighbourhoods, where probably 75 per cent. of the adults are insured persons, a man must be on the panel if his neighbour is. Placed in such a position, it would be suicidal to send such a stream of his own customers into a rival establishment; so that, even at a direct loss, he must retain the business. Well, how can we obtain some immediate relief? Only by co-operation and unity. Let every panel chemist join his local Association, and send his delegates to the forthcoming Conference of delegates in London, with the following resolution:

That we can only continue service conditionally that cost-price of drugs be the real cost, and not the apparent cost as interpreted by the Commissioners. That the real cost be found by dividing the net pound price by twelve, the Tariff to be quoted per ounce or in ratio. That lists, gauzes, plasters, elastic-web bandages, etc., be list-price *plus* 33½ per cent. to allow for cutting-up and waste. That all prices be calculated to the nearest 0.25d.

If every Association will adopt this resolution we shall make some progress towards immediate relief, and can arrange at our leisure the future minimum terms on which we are prepared to accept service. But act now. Don't be too late again.
G. KENNEDY.

Liverpool.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Jay MacKims

(as he writes them).

1. "Xrayser II." sighs for a man or a policy to unite the trade.
2. Union impossible so long as there are too many of us for all the trade left us by companies, co-ops., and dispensaries. Even the doctors are not completely united.
3. Local Association meetings listen too politely to "professors," most of whom have no business to be at our meetings at all.
4. If I published some of the private letters I receive, the trade would soon be relieved of these "old men of the sea."
5. Real reform must come—as a surprise—from the Council: like the shifting of the Latin.
6. Such reforms must come with a rush—if at all; discussion beforehand would kill the reform.
7. "Hot-air artists" (a Liverpool man's phrase) tell us that our craft is a training-school for the professions; but most of this is due to men who are running away from troubles which they refuse to diagnose correctly.
8. When the "professors" speak of the "wrong class" entering pharmacy, they forget Sir Wm. Cameron Gull, who made the greatest medical fortune in London; and he began as bottle-washer in a London hospital dispensary.

Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1915, beginning on page 341.

J. D. C. (159.25).—A "closing order" is made under Section 5 of the Shops Act, and differs from a half-holiday order, which is granted under Section 4. Many local authorities (*e.g.*, Glasgow) have refused to grant Section 5 orders in respect to chemists' shops, on the ground that the Act does not authorise them to do so. (See Sub-Section 4 in C. & D. Diary, 1914, p. 494, and the cases reported in that article.)

F. T. (160.50).—Read the paragraph "PARTNERSHIPS" in the C. & D. Diary, 1916, p. 345. In the case which you mentioned, A, the unqualified person, may provide the money for B, a registered chemist, to carry on business as

a chemist and druggist under his own name, A being a limited partner. Such businesses are at present being carried on with the knowledge of the Pharmaceutical Society of Great Britain.

F. H. R. (160/37) cannot induce his landlord to remedy a damp cellar, and has threatened to bring the matter to the notice of the sanitary authorities. The landlord replies that he will, in that case, let the premises to another tenant. Is he entitled to do so? [The landlord is not entitled to let the premises to another tenant until the present tenancy has been determined, or has expired, in accordance with the tenancy agreement.]

W. S. S. (156/27).—PAYING SALARY DURING ILLNESS.—The National Insurance Act (Section 47, Sub-Section 12) provides:

Nothing in this section shall relieve any employer from any legal liability to pay wages during sickness to any person employed by him in accordance with any established custom.

As it was the custom to pay assistants' salaries during illness, it follows that the National Insurance Act has not caused any difference in this matter.

Miscellaneous Inquiries.

Cymro (153/40).—RED COLOUR FOR COUGH-MIXTURE.—If the mixture is acid, tincture of cudbear (1 in 8 of a mixture of S.V.R. 1, water 2) answers well. Alkanet is only adapted for colouring oils.

Scot (147/69).—VAN ERMENGEM'S SOLUTION, used for cleaning cover-glasses in a method of staining flagella, is made as follows:

Potassium bichromate	...	...	60 grams
Sulphuric acid	...	...	50 c.c.
Water	...	...	1,000 c.c.

The cover-glasses are boiled in this solution, then washed in water, and kept in absolute alcohol.

Aspirin (240/3).—(1) We prefer not to print the formula for which you ask, as it appears to us to be too strong in nitric acid. (2) **ASPIRIN**.—The word was registered as a trade-mark in 1899 by the German Bayer Co., and it was removed from the register in 1915. The aspirin patents are 27,088 of 1893 and 9,123 of 1899. The first of these was declared by the Courts to be invalid, and the second one became void in 1907. The German patent which preceded the British patent was granted to Ludwig Limbach, Berlin, and is dated June 14, 1896.

F. M. T. (159/14).—OBSCURING LIGHTS.—The method given in the *C. & D.*, February 19, p. 53, is the one which you will find best, using in your case malachite green or similar spirit-soluble aniline dye. Some public authorities are employing diluted black varnish for obscuring street lamps, but this method is only suited for the cases where opacity is required.

J. D. M. (157/11).—SUGAR-COATING TABLETS is an operation which can only be carried out efficiently on a manufacturing scale. The apparatus used is a revolving spherical pan heated by a coil of steam-pipe, which envelopes the wider circumference of the pan. When the pan has reached the proper degree of heat the tablets are put in and allowed to revolve for a minute; then a syrup, consisting of $1\frac{1}{2}$ lb. of sugar and 1 dr. of starch, dissolved in 20 oz. of water, is poured into the pan, so that it may land on the part not occupied by the tablets. The pan has an eccentric motion, so that the pills are not driven round and round the pan continuously, but from one part to another. The tablets are thus thinly coated, and are then transferred to another pan and the process repeated with a thinner syrup, and finally to a third pan, where a syrup (2 lb. sugar to 20 oz. of water) is applied. After this the tablets are polished in a cylinder lined with bolting-cloth, rapid rotation being practised here also.

J. K. G. (147/56).—ABORTION IN COWS.—The casting of the calf a fortnight or three weeks before time is classified as premature calving, and is usually attributed to fright, improper feeding, or insanitary surroundings. Two months or more is classified as abortion, a contagious disease not easily exterminated from a herd. It may remain about a place for years. Particulars regarding this are given in "Veterinary Counter-practice." A vaccine is now used which, according to some authorities, is beneficial and acts as a cure. Isolation, and the use of disinfectants and antiseptics, should be rigidly enforced, and separate attendants should wait on the affected animals. In course of time this disease runs its course, but this is an indefinite period.

Red Head (137/34).—POULTRY-POWDER for fowl-cholera.—The active ingredients of this powder are potassium chlorate and powdered asafetida. There is also present some aromatic, such as anise, and the powder is coloured with Venetian red.

R. G. E. (156/33).—TRENCH-OINTMENT.—The basis of this is either vaseline or a non-greasy substance, such as soap or tragacanth-paste. Blue ointment or white precipitate ointment are used, but the following is a modern formula:

Powdered tragacanth	...	...	3ij.
Rectified spirit	...	...	3ss.
Glycerin	...	...	3j.
Naphthaline	...	...	3ij.
Carbon tetrachloride	...	...	3j.
Water	...	...	3vj.

Mix the tragacanth with the spirit, add the naphthaline previously dissolved in the carbon tetrachloride, then the glycerin, and finally the water all at once. The tragacanth should be adjusted so that the finished ointment is of the consistence of lard. It is best packed in collapsible tubes.

S. I. (159/91).—CHILDREN'S COUGH-MIXTURE.—The following is the formula for which you ask:

Ammon. brom.	...	...	3ss.
Ess. rubi idæi	...	...	3ss.
Liq. eocci	...	...	q.s.
Syr. scillæ	...	...	3viss.
Vin. ipecac.	...	...	3j.
Syr. tolu.	...	...	3ivss.
Glycerini	...	...	3iv.
Aq. chlorof. ad	...	...	3xx.

J. W. S. (156/12).—HARDENING STEEL.—We are not aware that tartaric acid is used for this purpose, but as a great variety of substances, including vinegar, are employed, we should not be surprised to hear that it is an ingredient in some recipes. Yellow prussiate of potash, borax, and potassium cyanide are most frequently in demand for hardening steel. Cutlery, however, is hardened by quenching in a solution of sal ammoniac and borax, and it is in this class of recipe that tartaric acid is likely to be employed.

W. R. W. (154/71).—(1) **POLISHING MARBLE**.—The surface of the marble is washed and dried and then rubbed with a linen cushion slightly moistened and powdered with putty-powder. The linen cushion is sometimes replaced by felt or moleskin pads, and some polishers employ rottenstone or emery-mud before finishing with putty-powder. The final polish is given with clean linen or felt pads. (2) **COMPOSITION-POWDER**:

Powdered bayberry root-bark	...	...	3xij.
Powdered ginger	...	...	3vj.
Powdered capsicum	...	...	3j.
Powdered cloves	...	...	3j.

Mix.

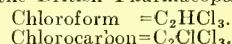
Matchless (154/30).—We consider the quantity of nitric acid ordered in the fever-cure to be excessive.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," March 15, 1866.

New Anæsthetic Agent "Chlorocarbon."

Sir James Y. Simpson has lately employed the vapour of bichloride of carbon as an anæsthetic agent with excellent results. In its chemical constitution the bichloride of carbon is analogous to chloroform, with this difference, that the single atom of hydrogen existing in chloroform is replaced by an atom of chlorine in the bichloride of carbon, or "chlorocarbon," as Sir James proposes to call it. The relative chemical constitution of the two bodies may be thus expressed in formulæ corresponding to the atomic weights given in the British Pharmacopœia:



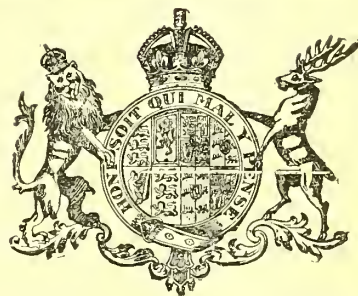
The most common way of forming bichloride of carbon consists in passing the vapour of bisulphide of carbon, together with chlorine, through a red-hot tube either made of porcelain or containing within it fragments of porcelain. There result from this process chloride of sulphur and bichloride of carbon, the latter being easily separated from the former by the action of potash. The bichloride of carbon, or chloro-carbon, is a transparent colourless fluid having an ethereal and sweetish odour, not unlike chloroform. Its specific gravity is great, being as high as 1.56, whilst chloroform is 1.49. It boils at 170° Fahrenheit, the boiling-point of chloroform being 141°.

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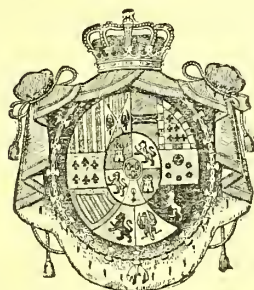
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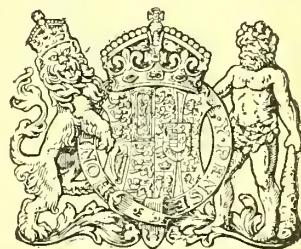
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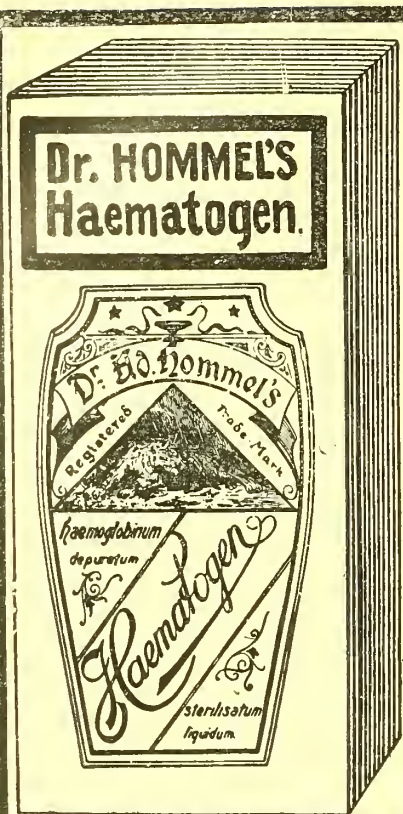
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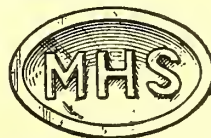
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Galls Cæsal. Pulv., 7 lbs. @ 1/6 lb.
Gamboge, English Ground, 7 lbs. @ 4/- lb.; 1 lb. @ 4/6 lb.

Ginger, English Ground, 1 cwt. @ 49/- cwt.; 7 lbs. @ 7d. lb.

Gingerine, Extra, 5 lbs. @ 13/- lb.; 1 lb. @ 13/6.

Glycerin, Opt. D.D., 1,260 P.B., 56 lbs. @ 130/- cwt.; 12 lbs. @ 1/4 lb.

Glycerin, Acid. Boric, P.B., 6 lbs. @ 2/- lb.

" Acid. Carbolic, P.B., 6 lbs. @ 1/9 lb.

" Acid. Tannic, P.B., 6 lbs. @ 2/4 lb.

" Belladon. B.P.C., 6 lbs. @ 6/- lb.; 1 lb. @ 6/6 lb.

" Glycerin. Boracic, P.B., 6 lbs. @ 1/5 lb.

" Pepsin. Acid. P.B., 1 lb. @ 3/3 lb.

" Plumbi Subacet. P.B., 6 lbs. @ 1/10 lb.

Guaiacol Carb., 1 lb. @ 80/- lb.

Guaiacol, pure, 1 lb. @ 50/- lb.

Gum Acacia sorts, 3 cwt. @ 75/- cwt.; 1 cwt. @ 80/- cwt.; 7 lbs. @ 9½ d. lb.; English Ground Powder, No. 1, 1 cwt. @ 120/- cwt.; 7 lbs. @ 1/3 lb.; No. 2, 1 cwt. @ 100/- cwt.; 7 lbs. @ 1/- lb.

Gum Benzoin, Sumatra, 84 lbs. @ 1/8 lb.; 7 lbs. @ 1/10 lb.

Gum Catechu Nig., English Ground, 1 cwt. @ 75/- cwt.; 14 lbs. @ 8½ d. lb.

Gum Guaiac, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/5 lb.

Gum Juniper, 14 lbs. @ 1/- lb.

Gum Thins Elect., 2½ cwt. @ 44/- cwt.; 28 lbs. @ 50/- cwt.

Gum Tragac. Elect., English Ground, 7 lbs. @ 10/3 lb.; 1 lb. @ 10/6 lb.

Heading (Frothing Ess.), 5 lbs. @ 1/3 lb.; Heliotropine, 1 lb. @ 1/- lb.

Hellebore, White, Powder (Foreign Ground), 1 cwt. @ 47/6 cwt.

Hexamethylenetetramine, 7 lbs. @ 5/5 lb.; 1 lb. @ 6/- lb.

Money, Pale Set, Jamaica, 28 lbs. @ 60/- cwt.; Californian, 1 cwt. @ 55/- cwt.; 7 lbs. @ 8d. lb.

Hydragyum, P.B., 10 lbs. @ 5/6 lb.; 1 lb. @ 5/10 lb.; Ammon., 28 lbs. @ 1/- lb.; c. Creta, 28 lbs. @ 2/6 lb.; Iodid. Rub. 28 lbs. @ 16/2 lb.; Oxid. Rub., 28 lbs. @ 8/- lb.; Ferchlor., Lump, 28 lbs. @ 7/7 lb.; Ferchlor., 28 lbs. @ 7/4 lb.; Sulph. c. Sulph., 28 lbs. @ 7/- lb.; 7-lb. quantities 1d. lb. extra, 3-lb. quantities, 2d. lb. extra, 1-lb. quantities, 3d. lb. extra.

Hydrokinone, 1 lb. @ 45/- lb.

Ichthyol Ammon. chemical equivalent: Ammot. Ichthosulphonas, B.P. Codex, 7 lbs. @ 7/- lb.; 1 lb. @ 7/6 lb.

Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/7 lb.

" Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/6 lb.

" Buchu Conc., 1 to 7, 6 lbs. @ 2/6 lb.

" Calumbæ Conc., 1 to 7, 6 lbs. @ 1/1 lb.

" Caryoph. Conc., 1 to 7, 6 lbs. @ 1/2 lb.

" Cascarella Conc., 1 to 7, 6 lbs. @ 1/6 lb.

" Clacchona Acid, 1 to 7, 6 lbs. @ 1/9 lb.

" Gentiana Co., 1 to 7, 6 lbs. @ 1/3 lb.

" Quassia Co., 1 to 7, 6 lbs. @ 11d. lb.

" Rhel Conc., 1 to 7, 6 lbs. @ 1/8 lb.

" Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 2/10 lb.

" Senegæ Conc., 1 to 7, 6 lbs. @ 2/6 lb.

" Valerian Conc., 1 to 7, 6 lbs. @ 1/6 lb.

Insect Powder, Opt., English Grd., closed flowers, 7 lbs. @ 3/- lb.; English Ground, ½ closed flowers, 4d. lb. less; Foreign Ground, 28 lbs. @ 1/6 lb.

Iodoform Pulv. B.P., 7 lbs. @ 20/6 lb.; 1 lb. @ 21/-

Iodum resub. B.P., 7 lbs. @ 18/9 lb.; 1 lb. @ 19/3 lb.

Isinglass, Brazil, fine cut, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/- lb.; Russian finest, 7 lbs. @ 10/6 lb.; 1 lb. @ 11/- lb.; Ribbon or Sheet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

Kamala, 7 lbs. @ 1/5 lb.; sifted, 1/9 per lb.

Lapis Pumicis, fine powder, 2 cwt. @ 11/- cwt.; 7 lbs. @ 2d. lb.; lump, 2 cwt. @ 16/- cwt.; 7 lbs. @ 3d. lb.

Licorice Juice, 4 & 2-oz. Sticks, 1 cwt. @ 135/- cwt.; 28 lbs. @ 1/3½ lb.; 7 lbs. @ 1/4½ lb.

Lin. Aconiti Meth., 5 lbs. @ 1/9 lb.; 1 lb. @ 2/- lb.

" Bellad. Meth., 5 lbs. @ 7/- lb.; 1 lb. @ 7/3 lb.

" Camph. P.B., 40 lbs. @ 1/6½ lb.; 9 lbs. @ 1/10 lb.

" Sapo Meth., 9 lbs. @ 9½ d. lb.

" Treb. Acet., B.P., 5 lbs. @ 1/1 lb.

Linseed c. Oil, Crushed, 3 cwt. @ 23/- cwt.; 1 cwt. @ 23/6 cwt.

Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 1/3 lb.; 1 lb. @ 1/6 lb.

" Ammon. Aromat., 6 lbs. @ 10d. lb.

" Antim. Chlor. Pure, 8 lbs. @ 10d. lb.

" Arsenicalls, B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.

" Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.

" Bismuth, P.B., 6 lbs. @ 1/7 lb.

" Copaiba Buchu et Cubeb, 5 lbs. @ 2 11 lb.; 1 lb. @ 3/2 lb.

" Easton., p.s. 1-3, B.P., 1 lb. @ 3/5 lb.

" Ferri Dialysatus, 6 lbs. @ 1/- lb.

" Ferri Iod. p.s., 1-7, 1 lb. @ 8/- lb.

" Ferri Perchlor. Fort., P.B., 7 lbs. @ 6d. lb.

" Ferri Phosph. Co. p.s., 1-7, 7 lbs. @ 1/7 lb.

" Hamamelidis, B.P., 6 lbs. @ 1/3 lb.

" Hypophosph. Co. p.s., B.P.C., 1 lb. @ 3/10 lb.

" Iodid Fort, B.P., 5 lbs. @ 6/9 lb.

" Morphina Acet. or Hydrochlor., P.B., 6 lbs. @ 4/- lb.

" Opii Sed., 5 lbs. @ 6/1 lb.

" Plumbi Subacet., P.B., 7 lbs. @ 7d. lb.

" Prunl Virg. p.s. 1-7, 5 lbs. @ 2/8 lb.

" Rhodod. pro Syr., 1 to 7, 5 lbs. @ 2/7 lb.

" Rhel. p.s., 1-7, 6 lbs. @ 2/3 lb.

" Santali Co., 1 lb. @ 4/6 lb.

" Senna Dulc. 6 lbs. @ 1/7 lb.

" Senna pro Syr. 1-7, 6 lbs. @ 3/4 lb.

" Strychnina Hyd. P.B., 6 lbs. @ 1/10 lb.

" Tolul. pro Syr. 1-7, 6 lbs. @ 1/9 lb.

" Trinitrinl, B.P., 1 lb. @ 6/9 lb.

" Lithia Carb. P.B., 28 lbs. @ 6/- lb.; 7 lbs. @ 6/3 lb.; 1 lb. @ 6/6 lb.

" Citras, B.P., 28 lbs. @ 6/- lb.; 7 lbs. @ 6/3 lb.; pulv., 3d. lb. extra.

Lycopodium, 7 lbs. @ 8/9 lb.

Mag. Calc. Levis, 1 lb. @ 2/4 lb.

Mag. Calc. Pond., 7 lbs. @ 2/1 lb.; 1 lb. @ 2/3 lb.

Mag. Carb. Pond., 7 lbs. @ 11d. lb.

Mag. Carb. Levis, 1 cwt. @ 60/-; 7 lbs. @ 7½ d. lb.

Mag. Cit. Gran., 28 lbs. @ 1/- lb.; 6 lbs. @ 1/1 lb.

Mag. Sulpha. fine druggists, B.P., 1 cwt. @ 19/6; 28 lbs. @ 24d lb.

Manna, Flake, 14 lbs. @ 5/6 lb.; 7 lbs. @ 5/3 lb.; 1 lb. @ 6/- lb.

Menthol, dry white cryst., 60 lbs. @ 13/9 lb.; 5 lbs. @ 14/3 lb.

***Mist.** Senna Comp., B.P., 20 lbs. @ 8d. lb.; 6 lbs. @ 9d. lb.

Morphina Acet. Hydrochlor. or Sulph. Pulv. B.P., 25 oz. @ 14/- oz.; 16 oz. @ 14/3 oz.; 8 oz. @ 14/6 oz.; 1 oz. @ 15/3 oz.; Pur. Præcip. Bimeconate or Tart., 1 oz. @ 19/- oz.

Morphina Diacetyl. 4 oz. @ 22/- oz.; 1 oz. @ 22/6 oz.; Hydrochlor., 6d. per oz. less.

Myrrh, Gum, English Ground, 28 lbs. @ 1/3 lb.; 7 lbs. @ 1/5 lb.

Naphthalene, Flake, 7 lbs. @ 6½ d. lb.

Nux Areca, 1 cwt. @ 55/- cwt.; 7 lbs. @ 7d. lb.; powder, English ground, @ 80/- cwt.; 7 lbs. @ 9½ d. lb.

Ol. Amygdal. Ang., B.P., 9 lbs. @ 3/1 lb.

Ol. Anethi Ang. B.P., 1 lb. @ 17/6 lb.

Ol. Anisl, E.I., 66 lbs. @ 3/6 lb.; 16½ lbs. @ 3/10 lb.; 4½ lbs. @ 4/3 lb.; 1 lb. @ 4/6 lb.

Ol. Aurant., 12 lbs. @ 9/6 lb.; 1 lb. @ 10/3 lb.; not guaranteed absolutely pure.

Oil of Bays, genuine W.I., 1 lb. @ 14/6 lb.

Ol. Cajuput., B.P., 2½ oz. bots. @ 4/9 lb.

Ol. Camphor. Essent., White, 40 lbs. @ 1/1 lb.; Brown, 40 lbs. @ 120/- cwt.

Ol. Caryoph. Ang., B.P., 9 lbs. @ 5/8 lb.; 4½ lbs. @ 6/- lb.

Ol. Cassia, 16 lbs. @ 4/- lb.; 6 lbs. @ 4/3 lb.

Ol. Cinnamon, 1 lb. @ 32/- lb.; 1 oz. @ 2/3 oz.

Ol. Citronellæ, 9 lbs. @ 2/3 lb.

Ol. Coco. Nucis, finest White, 80 lbs. @ 66/- cwt.; 40 lbs. @ 68/- cwt.

Ol. Eucalypt., B.P., 1 cwt. @ 2/8 lb.; 28 lbs. @ 2/9 lb.; 9 lbs. @ 2/9½ lb.

Ol. Geranii Gall. Opt., 1 lb. @ 28/- lb.; 8 1-oz. bots. @ 2/3 oz.; 1 oz. @ 2/6 oz.; Turc., 1 lb. @ 12/6 lb.; 4 ozs. @ 15/- lb.

Ol. Gynocardia, 5 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.

Ol. Juniperi Ligne Exot., 9 lbs. @ 2/6 lb.

Ol. Lavand. ang Flor., 5 lbs. @ 13/6 lb.; 1 lb. @ 14/6 lb.

Ol. Menth. Pip. English, 5 lbs. @ 36/6 lb.; 1 lb. @ 37/6 lb.; Hotchkiss original bots. 21 oz. each @ 15/9 lb.; 6 bots. @ 15/6 lb.; 18 bots. @ 15/- lb.; American, 20 lbs. @ 10/- lb.; 4½ lbs. @ 10/8 lb.; 1 lb. @ 11/3 lb.; Japanese, 60 lbs. @ 4/7 lb.; 5 lbs. @ 4/9 lb.

Ol. Morruæ, 1915, finest non-freezing, 2-gall. tins @ 23/- per gall.

Ol. Myrrane, 9 lbs. @ 3/2 lb.

Ol. Myristice, 7 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.

Ol. Nucis Pallid., 2 gall. tins @ 6/11 gall.

Ol. Oliva, P.B., good yellow, guaranteed pure, 45 gall. barrels @ 5/2 gall.; 2 gall. tins @ 6/6 gall.

Ol. Origan Rub., Coml., 28 lbs. @ 2/- lb.; 9 lbs. @ 2/3 lb.

Ol. Peach Kernel (so-called), 1 cwt. @ 1/6½ lb.; 56 lbs. @ 1/7½ lb.; 9 lbs. @ 1/9½ lb.

Ol. Pulegii B.P., 5 lbs. @ 6/6 lb.; 1 lb. @ 6/10.

Ol. Ricini Alb. Opt. Medicinal, 44 lbs. @ 105/- cwt.; 9 lbs. @ 1/- lb.; for export, 1 cwt. drums recommended.

Ol. Rosmarini, Coml., 28 lbs. @ 1/9 lb.; 9 lbs. @ 2/- lb.; B.P., 9 lbs. @ 2/7 lb.; 1 lb. @ 2/11 lb.

Ol. Santal. Flav. Ang. B.P., 5 lbs. @ 31/6 lb.; 1 lb. @ 32/6 lb.

Ol. Sassafras, genuine, 28 lbs. @ 3/10 lb.; 1 lb. @ 4/5 lb.

Ol. Theobroma, B.P., 8-oz. tabs., 28 lbs. @ 2/6 lb.; 7 lbs. @ 2/7 lb.

Ol. Wintergreen, Artificial, 5 lbs. @ 18/9 lb.; 1 lb. @ 19/3 lb.

Opium Turc. B.P., 14 lbs. @ 36/6 lb.; 3 lbs. @ 37/6 lb.; 1 lb. @ 38/6 lb.; powder, 6d. lb. extra.

Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

NOTE.—Only terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers.

Goods carriage forward; all packages free; Export cases extra.

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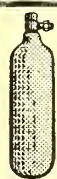
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OCTOBER 1915.

Size	1/3	3/-	5/-	12/-
Minimum Retail Price				1/2	2/10	4/9	11/6
PRICE TO TRADE				11/9	29/6	48/9	117/6
(Per Dozen)							

Discount: 5 per cent. on £1 worth, 7½ per cent. on £5 worth and upwards.

Packages charged 3d. on £2 parcels or under, and 1d. for each extra £1 worth, and are not returnable. Carriage forward.

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THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, MARCH 18, 1916.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED THE MONEY IS TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

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THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—WEST END.—Essentially Dispensing and good-class Retail Business; price about £1,000, or Partnership would be considered; returns £2,000; roomy premises, comprising shop and 11-roomed house; gross profit 50 per cent.; if preferred vendor will accept £250 and valuation of stock and fixtures.

2.—LONDON, S.E. (Good-class District).—Modern Pharmacy, well situated, but much let down, and for disposal through death; returns about £1,000; a young man with energy would soon make a big business; no reasonable offer refused.

3.—LONDON (Western Suburb).—Middle-class Retail and Dispensing Business; returning under management £650 (about), with clear income of £200; excellent residence and capital double-fronted shop; the concern admits of considerable extension under personal supervision.

4.—MIDDLESEX (Few Miles Out).—Cash Retail Business; returning under management £1,400 to £1,500, at very profitable prices; about the value of stock and fixtures required; part payment considered.

5.—LONDON, S.W. (Main Thoroughfare).—Good-class Family Retail and Dispensing Business in select residential district; returns £1,000, very profitable; valuation of stock and fixtures, estimated at £650; price £350.

6.—LONDON, S.E. (Busy Main Road).—Cash Retail for Disposal at less than value of stock and fixtures; returns £700 under unqualified management; price £275.

7.—CITY (Near).—Retail and Dispensing (N.H.I.) Business, in main marketing thoroughfare; returns £900 to £1,000 yearly; gross profit 50 per cent.; price £300, or prompt offer; corner shop, double-fronted, nicely fitted, and very well stocked.

8.—MIDDLESEX (Nine Miles North of London).—A thoroughly sound Retail and Dispensing Business; no serious opposition; returns exceed £1,500, at good prices; well-fitted shop and good stock; modern house; terms, valuation and sum for goodwill to be agreed.

9.—WESTERN COUNTY (Market Town).—Retail and Dispensing Business; old-established; returns £1,330; gross profit £500; substantially fitted and well stocked; good house and garden; owing to ill-health of vendor a sacrifice will be made to effect a speedy transfer.

10.—KENT.—Very old-established Business, chiefly ready money; returns between £1,050 and £1,100, at very profitable prices; vendor estimates the value of stock and fixtures at £900; price, to include goodwill, £950.

11.—HOME COUNTY (35 Miles Out).—Good middle-class Retail and Dispensing Business; returning £619, at very good prices; single-fronted shop, in best position; roomy house; terms, valuation of stock and fixtures.

12.—SUSSEX.—Retail and Dispensing Business, of good class; village in midst of glorious country; returns about £850, at good prices, and increasing steadily; comfortable residence, with private entrance; nicely fitted and well stocked; further details on application.

13.—WILTS.—Sacrifice for immediate sale; neglected Retail, with Wine and Spirit Licence; returns about £1,000; scope for plenty of increase under qualified management; good house and garden; will accept valuation of stock and fixtures.

14.—SOUTH COAST.—Cash Retail and own Proprietaries; position is good, and returns can be much increased under qualified management; present rate £900; price £620, or offer.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

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Telephone 1934.

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NO CHARGE TO BUYERS.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

£1,400 returns.—NORTH MIDLANDS.—Good-class market town Business at good prices; easily worked; good house; rent £40 on lease; price £800.

£1,200 returns.—CHESHIRE.—Light Country Family Retail, with good house; low rent, lease; net profit £300; price £525.

£500 (nearly).—LANCS.—Middle-class Retail; good opening for Dentistry or Optics; vendor joining the Army; price £175; this business has done double.

£300 to £400 returns.—DERBYSHIRE.—Good working-class Retail; qualified man could largely increase; valuation about £150.

£1,100 returns.—WILTS.—General country trade, with Wines and Spirits; valuation about £400.

£1,100 returns.—MIDLANDS.—Nice Family Retail, with Optics; pleasant country market town; good house; price £725.

£550 returns.—LINCOLNSHIRE.—Light Family Retail; could be much increased by energetic man; valuation about £400.

Valuations conducted upon the shortest notice
at moderate fees.

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VALUERS & TRANSFER AGENTS,

35 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—HOME COUNTY (15 Miles Out).—Light Family Retail and Dispensing, with Dentistry; pleasantly situated; returns over £1,000; increasing; net profit £308; books properly kept; modern house, bathroom and large garden; well fitted and stocked; price £650; strongly recommended.

2.—SOUTHERN COUNTY (Fashionable Town).—First-class Retail and Dispensing Business; returns £1,200; profits half; plenty of scope; fine position; price £700, or £100 and valuation; personally inspected and recommended.

3.—MIDLANDS (Death Vacancy).—Good-class Retail and Agricultural, in market town; easy hours; returns £900; net profit £300; low rent; price £425, or near offer.

4.—KENT.—Unopposed good-class Country Retail, delightfully situated; returns about £1,000; books properly kept; nice house and garden; well-stocked shop; price £500; good introduction.

5.—WILTS.—Old-established General Country Retail; unopposed; returns £1,200; net profit £300; large house and garden; low rent; heavily stocked; price £700, little more than valuation.

6.—ESSEX.—Unopposed Village Retail; easily worked; returns £350; net profit £120; good house and large garden; domestic reasons sole cause of sale; price £100, less than valuation.

7.—N. DEVON.—Unopposed Light Country Retail; plenty of scope in qualified hands; net profit £152; modern house, bathroom and large garden; price £175, or offer.

8.—LONDON, S.E.—Middle-class Suburban trade; no Panel; returns £900, increasing; net profit £250; no opposition; well fitted and stocked; price £400.

9.—LONDON, N.W.—Sound Cash Retail, in busy main road; returns over £1,100; net profit £275; good house and large garden; well-stocked Pharmacy; price £475.

STOCKTAKING v. INCOME TAX.

Every chemist should make a point of reading page 135 in *C. & D. Diary*, which deals with the above matter, and then write for our special pamphlet and low terms.

Forty-five years' practical experience.

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All correspondence should be addressed as above.

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Valuer to Association of Manufacturing Chemists,

CONTINUOUSLY increasing Cash Business; excellent position, large town, Kent; returns £1,200; good house; well-fitted shop; price, small goodwill and valuation, or offer.

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IN Western County; now returning £500 to £1,000; in good hands easily £1,000; well-fitted shop, private entrance, large garden, stable, etc.; stock and fixtures estimated at £500; rent £45.

No Charge Whatever to Purchasers.

P. C. B. makes a speciality of examinations and reports on businesses on behalf of purchasers and arranges the transfer on very moderate terms.

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AND EXPERT STOCKTAKERS,

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Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

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3s. 6d. for 50 words or less; 6d. for every
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The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

GLoucester.—For immediate Disposal, owing to illness and advanced age, old-established Business; returns over £1,300; well-fitted corner shop; good house and garden; stock and fixtures over £1,000; price £800. Full particulars, 259/26, Office of this Paper.

LONDON, N.W.—£150 cash will buy a good old-established Business, taking £10 weekly (books kept); splendidly fitted and stocked; situated main thoroughfare; house and shop 10s. weekly; good prospects for qualified or unqualified; owner called up for active service; must sell; bargain for purchaser; confidential. 255/14, Office of this Paper.

LONDON, N.W. (Good-class Neighbourhood).—Old-established; returns over £800, exclusive of Dentistry and Mineral-water returns; good reasons for sale; price asked £650, including fixtures, mineral-water plant, etc.; open to offer; corner premises; nice home. Thoroughly recommended by Passingham & Hall, Valuers, 50 Grafton Street, Tottenham Court Road, W.

LONDON, W. and S.W.—Two Businesses for immediate Disposal: No. 1, suburban; lease 21 years, 16 to run; established 1821; returns 1915, £1,000; no Panel; valuation of stock and fixtures £650; price £350. No. 2, West End; rent 30s. weekly, no rates and taxes; valuation of stock and fixtures £100; price £75. Apply to "Rory" (257/22), Office of this Paper.

MANCHESTER District (Population 100,000).—Genuine Business; established 35 years; gross returns about £750, including Insurance; price about £300; rent £35; scope for increase; good reasons for selling. Apply, 258/200, Office of this Paper.

MIDLANDS.—Light Retail and Dispensing Business; well situated in good-class residential town; established nearly a century; returns £460; net profit one-third; ample scope for increase; excellent reasons for disposal; vendor prepared to sacrifice for practically half value of stock and fixtures. "H." (257/7), Office of this Paper.

SOUTHAMPTON (Near).—Good-class Retail and Dispensing Business for Sale through death; returns show a steady increase, and are now between £1,400 and £1,500, and yielding a net profit of about £550; capital residence and garden; rent £22; large double-fronted shop, fully stocked; will accept first reasonable offer for goodwill and sell stock and fixtures at valuation. Apply, 162/25, Office of this Paper.

WINSFORD, Cheshire.—Chemist's Business for Disposal; established 9 years; rent 9s. a week; population 12,000; only four other Chemists in the district; will sell at a sacrifice. Apply, Parkin S. Booth, F.A.A., The Association of Manufacturing Chemists, Ltd., 2 Bixteth Street, Liverpool.

CHEMIST'S Business for Sale, situated near Rochdale, Lancs; population 5,000; no opposition; rent £26 per annum; turnover can be materially increased. For particulars apply Parkin S. Booth (Accountant to the Association of Manufacturing Chemists, Ltd.), 2 Bixteth Street, Liverpool, or C. L. Lewis, 3 King Street, Rochdale.

DRUG Stores; must sell; owner enlisted; 10 miles out; no opposition; 2,000 inhabitants; takings £16; good profits; established 8 years; valuable sideline; long lease; rent £35; rates £8; modern house and shop; main road; side entrance; 2 bedrooms, bath, etc.; suit qualified; Panel, Dentistry, and Optics needed; will take as going concern £250, or stock and fittings at valuation. "Tonsor" (255/16), Office of this Paper.

EXCELLENT opportunity to obtain a really genuine business in growing town in Kent; population over 4,000; large number of troops in addition; no opposition whatever; exceptional scope for Dentistry, Optics, and Photography (not hitherto exploited); turnover £650; steadily increasing; profits extra good; large Panel; price £350, part can remain. 258/15, Office of this Paper.

EXCEPTIONAL Opportunity.—Neglected Country Business; capable of large, immediate increase with personal attention; plenty of scope; splendid opening for Dentistry; handsome shop, well fitted and stocked; 6-roomed house and nice garden; well worth £250; will accept £200 to effect speedy sale. 257/29, Office of this Paper.

GOOD opening for qualified Chemist; owing to death of proprietor; established 30 years in good neighbourhood; rent and price very low; widow must sell at once. Apply for particulars, Battle, Son & Maltby, Lincoln.

IN rapidly improving County town in North-West of England, on account of age and ill-health of proprietor, a handsomely fitted Pharmacy in central position, doing a high-class business, and capable of great increase; price, value of stock and fittings. "T. S." (256/32), Office of this Paper.

SEASIDE.—Business in main thoroughfare of rising and popular resort; good prices obtained; scope for development; double-fronted shop, newly fitted; exceptional reasons for disposing; books will bear every investigation; capital required, about £500 for stock and fittings; no goodwill; no old stock. Apply, "Statim," 149 Balby Road, Doncaster.

WELL fitted and stocked Drug Stores for Disposal, under lady management; husband at the Front; rent £40 and rates; price £160, or near offer. Digman, 153 Eardly Road, Streatham, S.W.

FOR SALE.

AMMON. Bromid., 4 oz., 6s. 3d.; Adeps Lanae Hydros., 1 lb., 2s. 6d.; Beberinae Sulph., 1 oz., 5s.; Zino. Valer., 2 oz., 5s.; Bals. Peru, 2 oz., 3s.; Sulphonol (Bayer), 4 oz., 13s.; Potass. Chlor. Crys., 5½ lb., 8s. 6d.; Fol. Buchu, 12 oz., 4s.; Butyl-Chloral Hydras, 1 oz., 2s. 3d.; Argent. Oxid., 1 oz., 3s. 250/35, Office of this Paper.

NATIONAL Cash Register; prints receipts; separate cash drawers; best condition possible; cheap. Write, Bird, 64 Broughton Street, Battersea, S.W.

WHAT offers, part or whole? 1 gross B.W. Aspirin, 25's; 1 doz. B.W. Aspirin, 100's; 2 doz. B.W. Phenacetin (Plain and Co.), 25's; ½ doz. B.W. Phenacetin (Plain and Co.), 100's; 1 doz. B.W. Saxin, 500's; 2 doz. B.W. Saxin, 200's; 2 doz. B.W. Saxin, 100's; ½ doz. Urodonal, 7s. "Travers," c/o Dalroy & Co., 194 Shaftesbury Avenue, W.C.

WHAT offers for 6 100's Phenacetin, Comp. Tablets, 3 1-oz. Trional, 3 lb. Sodii Salicyl. (Schering's), 8 oz. Phenacetin, 2 lb. Bismuthi Subnit. (Howards'), 2 lb. Potass. Permanganate? Hogg, Chemist, Ulverston.

7 lb. Potass. Bromid., 24s. lb.; 7 lb. Potass. Iodidi, 14s. 6d. lb.; 7 lb. Sod. Salicylas, 20s. lb.; 1,000 Phenacetin Tablets, 50s.; 1,000 Salol Tablets, 40s.; ½ lb. Phenacetin, 30s.; all guaranteed B.P.; would exchange part for Aspirin Tablets, 5 grain, and Patents. Brewer & Marston, 44 Cophall Avenue, E.C.

PREMISES TO LET.

TO Let, smart Business Premises; suit Chemist; not one in town at present; population 5,000; centre of principal street; terms reasonable. Rowlands, Nelson, Cardiff.

SALES BY TREATY.

TO Investors and Speculators.—To be Sold by private treaty, without reservation, Shepperley's well-known and renowned Household Remedies, a fifty years' success, together with the Stock; immediate possession. Address, the Exors. of the late Mr. George Shepperley, 54 Long Row, Nottingham.

BUSINESSES WANTED.

SYNDICATE are open to Purchase several good Proprietary Businesses for cash, but must be well established and showing a profit. Particulars, in strict confidence, to "Syndicate" (255/23), Office of this Paper.

AGENCIES.

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AGENCIES Wanted.—A firm of General Importers, Indentors, and Manufacturing Agents have opening for Agencies of all kinds; splendid situation Melbourne business centre; fine, naturally lighted showrooms and large windows; reference, Commonwealth Bank of Australia. E. Duncan & Co., Strand Buildings, 152 Elizabeth Street, Melbourne.


ESTABLISHED Firm with five Branches in India, and first-class connection, wish to represent Drug House; turnover guarantee; agencies also considered for Patent Medicines, Sundries, and Instruments. 162/29, Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every
10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

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RESULTS
OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK MAR 11 1916
NATURE OF ADVT. REPLIES

REPRESENTATIVE	34
DISPENSERS	22
WORKS-MANAGER	17
ASSISTT	14
QUAL. MANAGER	11

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BEDFORD.—Unqualified Assistant wanted, for good-class business; must be ineligible for Army; Counter, Dispensing, and Window-dressing; knowledge of Photography desirable; easy hours; outdoors. Anthony & Son, 48 High Street.

BIRMINGHAM.—Manager, about 30, wanted for good-class Suburban business; good opening for energetic man; must be good Salesman and Window-dresser; knowledge of Optics. Salary and references to 256/20, Office of this Paper.

BOLTON Union.—Wanted, for the Townleys Hospital, Farnworth, near Bolton, a qualified Female Dispenser, and for the Townleys Military Hospital, a qualified Female Assistant Dispenser; salary £80 per annum for the Dispenser and £50 per annum for the Assistant, both officers having Rations, Apartments, and Washing in addition. Applications, on forms which may be obtained from me, with print of conditions of appointment, and for which a stamped addressed foolscap envelope must be enclosed, may be sent to me not later than the 27th March, 1916; Caussing the Guardians either directly or indirectly will be a disqualification. H. I. Cooper, Clerk to the Guardians, 28 Mawdsley Street, Bolton, 11th March, 1916.

EXETER.—Wanted, unqualified Assistant, lady or gentleman; efficient Dispenser and Stockkeeper; three kept; age immaterial if references are right. Experience, salary required (outdoors), to Mr. Reid, 2 Queen Street, Exeter.

GLOUCESTER.—Assistant, to live on premises; qualification not essential; Photography is essential; comfortable berth; easy hours. Walwin, Chemist, Gloucester.

GLOUCESTERSHIRE (Pleasant Country Town).—Dispenser wanted; work light; good-class non-Panel practice; last Dispenser 10 years, now O.H.M.S.; the vacancy suitable for lady Dispenser; Surgery away from house. Full particulars and salary (outdoors) required, 258/13, Office of this Paper.

GOSPORT.—Manager wishes to strongly recommend comfortable post to qualified Chemist over military age; good Prescriber and Dispenser; Light Retail; no Sunday duty; outdoors; state salary required and references. Apply, French, Chemist, Gosport.

HIGH Barnet.—Qualified or unqualified Senior Assistant, reliable Dispenser, for high-class Retail and Dispensing business; easy hours; good salary; permanency for suitable man. Apply to W. Parry-Jones, Pharmacist.

HULL.—Wanted, qualified Assistant, indoors; also a Junior Assistant, in good-class Retail and Dispensing business; short hours. State age, height, salary required, and references, to Metcalfe & Son, Pharmacists, Hull.

LIVERPOOL District.—Assistant for good-class Dispensing business, half-holiday and alternate Sundays. Usual particulars to M. & R., 127a St. John's Road, Waterloo, Liverpool.

LONDON.—Lady Assistant required for high-class Chemist's; must be a capable Dispenser and have a knowledge of Book-keeping. "S. S." (258/113), Office of this Paper.

LONDON (City).—Qualified Manager, age about 45, required for high-class business; liberal interest in the profits offered to a capable and energetic man. "City" (258/112), Office of this Paper.

LONDON, N.—Wanted, an Assistant with good all-round experience for a middle-class Retail with N.H.I. Dispensing; salary 45s. weekly. Apply, with full particulars of experience, names of references, and when disengaged, "Chemist," 300 Amhurst Road, Stoke Newington.

LONDON, N.—Evening Assistant required. Full particulars to "Borax" (258/9), Office of this Paper.

LONDON, S.E.—Assistant wanted (outdoors) for quick Cash business; close Thursday 1 o'clock; no Sunday duty. State experience and salary required, Brooks' Drug Stores, corner of High Street, Broadway, Deptford.

LONDON, S.E.—Junior wanted; ineligible; or one requiring time for study; indoors. A. Peel, 7 Half Moon Lane, Herne Hill, S.E.

LONDON, S.W.—Required, Assistant for the Front Counter, of gentlemanly appearance and address; unqualified; hours of work approximately 8.45 to 6, 1 p.m. on Saturdays; no Sunday duty. Write, giving full particulars, to "L. J." (2639), Sells' Advertising Offices, Fleet Street, E.C.

LONDON, S.W.—Required, Dispenser, Minor; hours of work approximately 8.45 to 6.30, Saturdays 1 p.m.; no Sunday duty. Write, giving full particulars, to "L. J." (2637), Sells' Advertising Offices, Fleet Street, E.C.

LONDON, S.W.—Required, Counter Assistant (lady); unqualified; accustomed to Drugs and Perfumery; hours approximately 8.45 to 6, 1 p.m. on Saturdays; no Sunday duty. Write, stating particulars of experience, to "L. J." (2638), Sells' Advertising Offices, Fleet Street, E.C.

LONDON, S.W.—Bookkeeper required, with some knowledge of Chemist's business; a lady, or gentleman ineligible for military service. Apply by letter, giving usual particulars, salary required, etc., to Manager, Savory & Moore, 29 Chapel Street, Belgrave Square.

LONDON, W.—Qualified Chemist wanted (at once), a few hours daily or otherwise; elderly or invalid will do; very easy and quiet place. Apply, in first instance, in writing, to Alexander, 152 Great Portland Street, W.

LONDON, W.—Wanted, an Assistant (ineligible for military service), or lady Assistant; no N.H.I. work; outdoors. Please state age, experience; and salary required to W. A. Weston, 8 Sandringham Parade, Ealing.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed o/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

LONDON, W.—An Improver or Junior for high-class Dispensing business; two Assistants kept. W. McEwen, 17 Craven Road.

LONDON, W.—Assistant (ineligible, or lady); whole or part time; good Dispenser; outdoors. Full particulars to Thompson, Pharmaceutical Chemist, 31 The Grove, Ealing.

LOWESTOFT.—A reliable Assistant required for Light Retail and Dispensing; good references necessary. Apply, stating age, salary, and other particulars, to Sale & Nurse, Pharmaceutical Chemists, Lowestoft.

MANCHESTER.—Wanted for about middle of April, a gentlemanly Assistant for Light Mixed Suburban business; Dispensing, Counter, etc.; qualification not necessary. Usual particulars, outdoors, to "Spes," c/o Messrs. Oldfield, Pattenson & Co., New Bridge Street, Manchester.

ST. GEORGE'S HOSPITAL, S.W.—Assistant Dispenser (male) wanted; Minor qualification; ineligible for military service; salary £2 5s. per week; hours 9 to 5; Sunday duty every third, about two hours. Apply to Chief Dispenser.

SCARBOROUGH.—Wanted, unqualified Assistant. Clare & Hunt, South Street, Scarborough.

SITTINGBOURNE.—Lady Assistant wanted for Light Retail. J. E. French, M.P.S., F.I.C., Sittingbourne.

SOUTH KENSINGTON.—Required, an Assistant, of good Dispensing experience; ineligible for military service. Apply to Plaister & Co., 13 Gledhow Terrace, South Kensington, S.W.

SOUTH OF ENGLAND.—Assistant required; experienced; permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTHSEA.—Cruse & Co., Ltd., Chemists, require immediately Assistant; ineligible for military service; single or married (former preferred).

SURREY.—Unqualified Assistant for good-class business; must be a first-class Dispenser and bear an irreproachable character. "W." (258/111), Office of this Paper.

SURREY COUNTY ASYLUM, Brookwood.—Temporary Dispenser wanted immediately; qualified; male (ineligible) or female; the duties include a certain amount of clerical work; salary 53s. a week. Application, with copies of testimonials, to be sent to the Medical Superintendent.

W. WORTHING.—Unqualified Assistant; outdoors; aged 24-30; ineligible; capable Dispenser and Window-dresser; married man preferred. Send photo (if possible) and all particulars in first letter to H. Reynolds, Pharmacist, W. Worthing.

YORK.—Wanted, unqualified Assistant, ineligible for the Army, or lady with Dispensing and Counter experience; half-holiday and no Sunday duty. Apply, with full particulars, stating salary required, and photo if possible (to be returned), John Saville & Sons, Chemists, York.

A JUNIOR Assistant; ineligible; indoors; or a lady; must be accustomed to good-class Dispensing and Retail business. Apply, stating salary and usual particulars, to J. Selley, 202 Earl's Court Road, South Kensington.

ASSISTANT; immediately; ineligible for Army; must be accustomed to best-class Dispensing. W. Ive, 115 Gloucester Road, South Kensington.

ASSISTANT wanted, lady or gentleman; outdoors; light duties and easy hours. Particulars and salary to Bishop, Chemist, Thames Ditton, Surrey.

BRADY & MARTIN, LTD., have a vacancy for a qualified Assistant for the Dispensing and Retail Counter; application from a lady would be entertained. Apply by letter, Brady & Martin, Ltd., 29 Mosley Street, Newcastle-on-Tyne.

BURROWS, Chemist, Market Place, Gainsboro', has a vacancy for Junior, Improver, or Turnover Apprentice.

CHEMIST.—Qualified Chemist required for Dispensing duties; quick and accurate; ineligible for Army; permanency; hours 8 to 6, Wednesday 8 to 1; commencing salary about £168; no Counter work. State age, and fullest particulars of experience, to Manager, Junior Army and Navy Stores, Ltd., Aldershot.

COMPETENT Assistant required, ineligible for military service; must be a reliable Dispenser; outdoors. State age, height, salary required, photo if possible, Julian Horrell, The Pharmacy, Broadstairs.

DISPENSER and Bookkeeper wanted for a good-class non-panel practice by a firm of medical men in Lancashire. Apply, stating wages required, experience, and other particulars, 258/4, Office of this Paper.

DRS. COOPER, Lemarchaud, and Kendrew, Barnstaple, Devon, require a Junior, male or female, as Second Dispenser; half-day weekly and alternate Sunday free. State experience, references, and salary.

EVENING.—Every evening except Thursday; unqualified Assistant for Dispensing and Retail. Loug, 155 High Street, Stoke Newington, N.

EXPERIENCED Dispenser with knowledge of French; hours 1.50 to 11.50 p.m.; whole day off per week; West-End or good provincial experience. Apply, Manager, Heppell & Co., Hotel Cecil Buildings, Strand.

IMPROVER or young lady Assistant wanted; Dispensing and Light Retail. Harrison, 25 Hyde Park Road, Leeds.

JUNIOR or Improver wanted; splendid opportunity to learn the business and study; Hours: 48 weekly, 12 o'clock Thursdays. Apply, stating age, experience, and salary required, enclosing references, to Secretary, or Manager Drug Dept., Co-Operative Society, Stockton-on-Tees.

JUNIOR Assistant wanted (male or female) in West-End Pharmacy; outdoors. Apply, stating usual particulars, to "M." (162/47), Office of this Paper.

JUNIOR Assistant, male or female, required in middle-class Cash business; preference given to applicant who has some knowledge of Dispensing. Send full particulars of experience, age, and salary required to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

LADY, qualified, required; experienced Dispenser; N.I., a little Counter and General trade; company, Potteries. Give full particulars, 256/12, Office of this Paper.

MANAGER, lady or gentleman, for small Retail, with some Insurance work; Extractions could be added with advantage; permanency for suitable man; healthy North London suburb; also Part-time Assistant, lady or gentleman, 9 to 1.30, or later. "Chemist," 13 Cannon Road, Southgate, N.

MANAGER wanted for good-class business near London; ab-stainer; qualified; with knowledge of Dentistry; salary £2 15s. indoors or £3 10s. outdoors, and commission on Dental work. Apply, with references, 256/17, Office of this Paper.

MANAGER, qualified, wanted for high-class Departmental Store; gentlemanly man to take full charge of Drug Department; accustomed to modern trade; good Salesman, keen Buyer; short hours; no Sunday duties. Full particulars to Cater, Stoffell & Fort, Ltd., Bath.

MANAGING Assistant, for about ten weeks, commencing last week in April. Full particulars, salary required (outdoors), to Gaze, Chemist, Cheshunt.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects.

N.H.I. PRESCRIPTIONS.—Several reliable Pricers wanted, male or female; knowledge of 1916 system not necessary if previous experience in Pricing. State age, experience, qualification (if any), and when at liberty, 256/160, Office of this Paper.

PART-TIME Assistant required (indoors, with board); light duties; plenty of time for study if required. Apply, 175 Uxbridge Road, London, W.

PELHAM C. YOUNG, Pharmacist, Hounslow, requires, by the 22nd inst., or as soon as possible after this date, an indoor unqualified Assistant (non-eligible for military service), from 20 to 30 years of age preferably; Dispensing, Counter, and Photography. State fullest particulars. Phone, 153 Hounslow.

QUALIFIED or unqualified gentleman, ineligible, or qualified lady Dispenser, for high-class Dispensing business, near London. Reply, giving all particulars as to experience, qualifications, age, and salary required (outdoors), enclosing photo, to Browning Moss, Pharmacist, West Byfleet.

QUALIFIED Dispenser wanted (at once) for City business; short hours; outdoors; no Sunday duty; must be exempt from military service. Write, "H. H. M.," c/o Streets, 30 Cornhill, E.C.

QUALIFIED Manager required, ineligible, to take charge of business; Agricultural experience essential. Apply, with particulars of age, experience, and salary required, to Allen & Neale, King's Lynn.

QUALIFIED, aged, or man who wants to take things easy, for West-End Branch; hours 11 to 2 and 4 to 7; no Sunday duty; half-day weekly; salary 30s. per week; permanency. Full particulars to 256/25, Office of this Paper.

QUALIFIED Manager required for a well-established and progressive business; must be about 42 and have had good all-round experience; good agreement offered to the right man. "L." (258/11), Office of this Paper.

QUALIFIED man required for a few hours daily in business near London; suit elderly man retired from business. 259/8, Office of this Paper.

RELIABLE Assistant wanted immediately, good Dispenser, for Dispensing and General business in Lancashire inland town; outdoors. State salary, age, references, 258/2, Office of this Paper.

REYNOLDS & BRANSON, LTD., Leeds, require an Assistant (ineligible) for Retail and Dispensing Department. Apply, in the first instance by letter, giving full particulars.

UNQUALIFIED Assistant; must have been rejected by Army; comfortable permanency for capable man. State age, experience, and salary required, "U." (258/110), Office of this Paper.

WANTED, one unqualified Assistant with good-class experience, not eligible for the Army; also one Drug Warehouseman for filling and despatching orders. Apply, stating particulars, to Wilson & Kitchen, Wholesale and Retail Chemists, Whitehaven.

WANTED, a lady Dispenser for a leading West-End house; Minor qualification essential. State age, experience, and salary required, 163/9, Office of this Paper.

WANTED immediately, steady reliable man to take charge of business in West Riding of Yorkshire; arrangements could be made for sale of business if desired. Apply, stating age, experience, and salary required, to Joshua E. Hoyle, A.C.A., 14A Crossley Street, Halifax.

WANTED, unqualified Assistant to Drug business. State age, height, salary required, and references, send photo, G. Ayre & Son, Thirsk.

WHOLESALE.

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CLERICAL Staff.—Immediate vacancy for a well-trained male Clerk; must be quick at figures, have a good knowledge of Costing, and possess some experience of Drugs or Chemicals. Reply, with full particulars, to "Laboratory" (256/3), Office of this Paper.

CLERK, with good all-round experience of Druggists' Counting-house routine, required in City house; salary £100-£120 per annum, according to qualifications and experience. Full particulars to 162/46, Office of this Paper.

DRUGGIST.—Man wanted, Mixing Department; Powders only; ineligible. State age, wages, references, and experience, Burdall & Burdall, Anchor Works, Sheffield.

DRUGGISTS' Sundries.—Experienced Invoice Clerk required. Apply, by letter, giving full particulars, in confidence, and state salary required, Hatrick, 70 St. John Street, London, E.C.

EXPERIENCED Forewoman wanted; one who can keep a firm hand over young girls; previous knowledge in Packing Tablets, Pills, and similar light goods an advantage. State previous experience and wages required, "Control" (255/340), Office of this Paper.

EXPERIENCED Packer wanted at Dry Counter in Wholesale Drug House; non-military age. Full particulars as to previous employment and salary required, "Merton" (255/24), Office of this Paper.

EXPORT.—Competent man wanted with thorough knowledge of Buying Chemicals, Druggists' Sundries, and Patents for Export; also must have complete knowledge of Bookkeeping, Shipping, Insurance, Bills of Exchange, and Customs House work; must be ineligible for the Army. Apply, stating salary and full particulars, "R. C. A." (256/6), Office of this Paper.

FACTORY Manager wanted; must have had actual experience controlling Piecework and Timework. Stocks, execution of Orders, with up-to-date Systems; position is permanent, and requires first-class man; no application will be considered that does not give fullest particulars of qualifications, past positions held, together with age and salary required. Apply, 161/58, Office of this Paper.

LABORATORY hand wanted, experienced Wets and Dries. Write, giving particulars of experience and salary required (London district), to "L. J." (2640), Sells' Advertising Offices, Fleet Street, E.C.

LABORATORY Assistant wanted by well-known Provincial house; previous experience essential; need not be qualified; permanency and good wages. Apply, with full particulars, to "Opoponax" (162/60), Office of this Paper.

LADY required, with knowledge of Pharmacy and Prescription Reading, accurate at figures, for work of clerical nature. Apply, the Secretary, The British Drug Houses, Ltd., Graham Street, City Road, N.

REQUIRED, by a Wholesale firm, a competent man for Wet Cellar (ineligible for military service). State experience and wages, 256/9, Office of this Paper.

REQUIRED, Junior Invoice and Ledger Clerk; must be neat writer and quick at figures. Apply, by letter, giving full particulars and wages required, to 163/47, Office of this Paper.

STOCKTAKER required by firm of London Valuers; ineligible; quick at figures, good writer; suit man from Wholesale Drug house. Send particulars of experience, age, salary required, etc., to "Valuer" (259/16), Office of this Paper.

TABLET Maker.—Experienced hand wanted; permanency. State age, particulars previous situations, and customary information, Timothy White Co., Ltd., Portsmouth.

TOILET Preparations.—Provincial Hairdressers' Sundriesmen have vacancy for an experienced Assistant in Laboratory. State age, reference, and salary required, 163/6, Office of this Paper.

TOWN Representative wanted, to carry Surgical Rubber goods as side-line; 20 per cent. commission offered to gentleman who can influence sales. Apply, Richmond Rubber Co., Ltd., of 422 Kingsland Road, London, N.E.

WAREHOUSEMAN wanted, Druggist, Wholesale; ineligible. State age, wages, references, and experience, Burdall & Burdall, Anchor Works, Sheffield.

WET-FLOOR and Laboratory Assistants urgently wanted. Apply, Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

WHOLESALE Manufacturing Chemists (London) require the services of a qualified Chemist (Major or Minor); good prospects for a suitable applicant; must be ineligible for military service. Address, with full particulars, "Alpha" (160/63), Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

PARIS.—Wanted, Assistant, with first-class experience, preferably speaking French; good prospects for smart man; short hours; no Sunday duty. Scott, 38 Rue du Mont-Thabor, Paris.

CHEMIST (fully qualified) wanted, to Manage a Retail Drug business in India, with English diploma; salary from 350- to 400 rupees monthly; must have good appearance and address. Write, giving full particulars, to "L. J." (2653), Sells' Advertising Offices, Fleet Street, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

A GENTLEMAN (30), D.Sc. (Chemistry), with thorough knowledge of English, French, German, and Italian, seeks suitable spare-time occupation. Write, "S." (259/23), Office of this Paper.

AS Loquax; 27; ineligible; London preferred; highly experienced Dispensing, Photographic; thoroughly capable. 252/35, Office of this Paper.

ASSISTANT; unqualified; 28; height 5 ft. 7½ in.; well up Retail Dispensing, and Photographic; disengaged; South preferred. "Chemicus," 5 West Terrace, Richmond, Yorkshire.

ASSISTANT Locum; ineligible; married; disengaged; Dental experience. "Alpha," 4 Brintons Road, Southampton.

ASSISTANT, Junior; 19; exempted; smart; tall; excellent references and experience; indoor. 256/18, Office of this Paper.

BRANCH Manager, or good outdoor berth; qualified; married; 39; seaside or healthy country town, Eastern counties or South Coast. 255/18, Office of this Paper.

BRANCH Manager, or Assistant; unqualified; married; steady; disengaged March 27. Kellard, 107 Seven Sisters' Road, Holloway, N.

BRANCH Manager, qualified, desires change; ineligible; four years' present berth; excellent experience, London and Provincial. 254/19, Office of this Paper.

BRANCH, small; registered; over military age; Prescriber; at liberty March 18. "B.," Bank Pharmacy, Luddendenfoot.

CHEMIST'S daughter, age 16, with some experience, offers services for home, with time for study. "Dora," 186 Tong Road, Armley, Leeds.

DENTAL—Chemist Assistant; 30; N.I. Dispensing, Dental Mechanic; eleven years present post; abstainer. G. Hamilton, 31 Baskstone Road, Edmonton.

DISENGAGED, Managing Assistant; unqualified; married; tall; good references; over 20 years' experience; permanency; Midlands or North preferred. "H.," 8 Gill Street, Nottingham.

EVENING employment; female Dispenser; experienced. "R. E. W.," 87 Vernon Avenue, Raynes Park, Wimbledon.

EVENINGS, London district; Dispensing, Counter; experienced; ineligible. "Energy," 11 Lucerne Road, Thornton Heath.

EXPERIENCED, capable Improver, desires scope; highest references; ineligible; Manchester district only. Apply, 256/31, Office of this Paper.

EXPERIENCED Dispenser, Stockkeeper, and Salesman; reliable references. Forster, 54 Romilly Road, Finsbury Park, N.

HOSPITALS and Infirmarys.—As experienced Dispenser; ineligible; 6 years Medical Assistant and Surgery Attendant; smart, quick, neat. "G.," 10 Grange Road, Plaistow.

HOSPITALS, Institutions, etc.—Advertiser seeks post to assist in Dispensing, not particular as to duties; just discharged from Army. "Rhei," 106 Liverpool Road, Barnsbury, N.

LADY Dispenser, Hall certificate, requires post with Doctor, Chemist, or Institution, in London or suburb; good testimonials. 255/30, Office of this Paper.

LADY Dispenser, Hall qualification, desires post, Doctor or Institution preferred; good testimonials. F. Fry, 46 Greenway Avenue, Taunton.

LADY Dispenser, Hall certificate, desires post; Doctor or Hospital; aged 20. 257/9, Office of this Paper.

LADY Assistant Dispenser, Hall and St. John Ambulance qualifications, to Institution or Doctor, Croydon district preferred. "M.," Thorville, Addiscombe Grove, Croydon.

LADY Assistant, with four years' experience in Dispensing, requires situation in Derby or round about; can help at Counter and Books. Apply, stating salary and hours, to "O.," 15 Colne Road, Burnley.

LADY, little experience in Dispensing, desires post in Chemist's shop; Counter work; outdoors; London; salary required. 256/4, Office of this Paper.

LOCUM; 16th season; ineligible; elderly. Bilton, West Heath, Congleton, Cheshire.

LOCUM; 38; qualified; reliable; abstainer; exempted; good all-round experience; Lancs preferred, but not essential. 255/19, Office of this Paper.

LOCUM; country; disengaged April 8; qualified; 50; booking forward. Dewey, Helena Avenue, Margate.

MANAGER, in London; over military age; only first-class position needed. Apply, Mr. Harper (256/10), Office of this Paper.

MANAGERSHIP or responsible position; qualified; middle-age; permanency desired; good experience and references; Yorks preferred; disengaged in few days. 255/20, Office of this Paper.

PERMANENT post wanted by good all-round man; Counter, Dispensing, Window-dressing, and Photography; married. "Worker" (257/10), Office of this Paper.

QUALIFIED Pharmacist, 3 years' experience in Pricing and Checking N.H.I. Prescriptions, wishes to undertake Checking for Pharmacy Committees or individual Chemists. Apply, 256/1, Office of this Paper.

QUALIFIED; 36; married; excellent all-round experience; disengaged shortly. "Iridin," 59 Bethune Road, Stamford Hill.

QUALIFIED Manager, by active elderly man; period of war or permanency; good references. Address "Pyro," 402 St. John Street, E.C.

QUALIFIED Lady Dispenser desires post in or near London, with Doctors or Institution; good reference and experience. 256/38, Office of this Paper.

QUALIFIED Chemist desires change; wants permanency; active; experienced; married. 256/35, Office of this Paper.

QUALIFIED; 36; married; good Dispensing experience; London berth preferred; (open Locum work). "Radium" (257/26), Office of this Paper.

UNQUALIFIED Assistant; 39; first-class experience. "Solio," 107 London Street, Reading.

UNQUALIFIED seeks three months' engagement; 24; tall; Dispensing, Counter, etc.; S.W. or Midlands preferred. Mellar, Pewitt Hall, Onecote, Leek, N. Staffs.

UNQUALIFIED seeks permanency; married; excellent testimonials; age 30; wide experience; would entertain share; capital £100; near Manchester preferred, but not essential. Apply, "T. C. L." (256/3), Office of this Paper.

UNQUALIFIED; married; 42; accustomed to Manage. "Rhei," 52 Kendal Street, Carlisle, Cumberland.

UNQUALIFIED Dispensing Assistant; married; 29; first-class experience, references. 257/1, Office of this Paper.

YOUNG lady; Toilet, Perfumery, Proprietary Medicines, Chemists' Packings; accustomed Retail; Wholesale preferred. 259/17, Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can be no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BRISTOL and District.—Resident Traveller, over military age, covering this ground, is open to work good additional line in Bristol and adjoining counties, on a commission basis. Replies 247/5, Office of this Paper.

ESSENCE Traveller, 40 (ineligible for Army), well known and well received by leading Mineral Water Manufacturers and Manufacturing Confectioners in Lancashire and Yorkshire, seeks an appointment with a good Essence Firm; can prove an increase of trade each year for present Firm. Apply, 255/28, Office of this Paper.

GALENICALS, Fine Chemicals, Toilet Preparations, Malt Extracts, Essences, Tablets, Capsules, and Packed Goods; thoroughly practical man requires post; qualified; ineligible. 256/15, Office of this Paper.

PERFUMER (Manufacturing), ineligible, many years' experience, wants situation; Specialities, Face-cream, Shaving-cream, Hair-dyes, etc. "B. 13" (259/10), Office of this Paper.

REPRESENTATIVE; qualified Chemist; large connection; well known on road; excellent references; over 10 years last situation. 256/40, Office of this Paper.

RESIDENT London Representative for well-known Drug House requires additional line on part expenses and commission basis; Patent Medicines, Optical, or Sundries House would be considered. 256/11, Office of this Paper.

SURGICAL Dressings, Instruments, Drugs and Druggists' Sundries.—Advertiser, just over military age, with 25 years' experience in all commercial departments, is open to take a responsible position, preferably with a house touching all above branches; accustomed to control of staff; could be disengaged one month from conclusion of negotiations. "Energy" (256/16), Office of this Paper.

TOWN Traveller or Agent, qualified Chemist with Foreign Agencies (which are dead), wishes to represent some first-class house. Apply, "Hustler" (258/3), Office of this Paper.

WHAT offers?—Thoroughly experienced Warehouse, Counting-house; ineligible. "G.," 10 Grange Road, Plaistow.

MISCELLANEOUS.

SEVERAL sets of Drawers in solid polished mahogany, all in good order, fitted with glass knobs and labels, at half-price; also Dispensing Case, 5 ft. 3 in. wide, top section having two side cases, with mirror backs and adjustable polished edged glass shelves, mirror in centre resting on marble slab, bottom section two side cases, as above, and sponge case in centre; Embossed Glass Dispensing Department Tablet, back fitted with dispensing table and two sets of drawers, partly divided for labels, etc., also small shelves, for £11. D. Grant, St. James' Place, Edinburgh.

ABOUT 150 clean Carboys holding about twelve gallons in baskets with tops which have been used only for Acetic Acid; free on rail Fishponds, 3s. 6d. each; also a complete Laboratory with Drugs and Instruments for sale cheap, or make offer for any instrument required, as we are closing Chemical Department. Address, 15 Victoria Park, Fishponds.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 265 Old Street, London, E.C.

SHOPFITTINGS.—Several second-hand all-glass Counters, removed from British Industries Exhibition, fitted with Glass Shelves, at half original prices; Plate-glass fronted Counters, Dispensing-screens, Wall Showcases with piano fronts; all ready for use. Write requirements to PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

BEST cash price paid for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

DON'T TROUBLE TO THINK!

what style of Cards will ensure giving **BEST RESULTS** for your next Window Display.

SEND ALONG YOUR ORDER and particulars—**WE WILL DO THE THINKING** and supply **THE RIGHT STYLE** to secure you **EXCELLENT SALES**.

OUR PRICES ARE **LOW**. **QUALITY—THE BEST**.

F. MERTEN & CO., 72 MARLBOROUGH ROAD, | Previous Advt. cancelled
HOLLOWAY, LONDON, N.

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of 1/- for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE.

"The Chemist and Druggist," 42 Cannon Street, London, E.C.
Bismuth carb. (259/11) Luminal, 3 oz. or less (255/17)
Ceresine wax, 1 cwt. (163/46) Pot. permang. (163/46)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Acid. acetylsalicylic, 4 oz. Aspirin (2 1-oz. orig.) (254/22) (257/17)
Acid. acetylsalicylic. pulv., Atropin. pur., 1/4 oz. (259/9)
7 lb. (259/9) Atropin. sulph., 1 oz. (259/9)
Acid. acetylsalicylic. tablets (2 1/2 gr.), coloured Beta-naphthol, 2 oz. (257/17)
yellow (255/37) Bismuth. subnitras, P.B., 1 lb. (256/22)
Acid. salicylic, B.P., powder, 8 lb. (256/14) Butyl-chloral hydrate, 8 oz. (253/21)
Ammon. brom., 10 lb. (163/45) Eikonogen (Agfa), 6 lb. (258/1)
Argyrol, one (255/36)

Chloralamid, 1/2 oz. (257/17) Pot. brom., 7 lb., mixed
Ferri ammon. cit., 7 or with 5 per cent. sod. brom. (163/45)
Ferri quin. cit., 25-oz. tin Potassium bromide pdr., (163/45) 7 lb., and cryst., 1 lb. (255/37)
Guaiacol carb., 2 oz. (257/17) Potassium hydras (stick), 2 1-lb. (254/22)
Guaiacol carb. (Bayer), 4 oz. (251/24) Potassium permanganate, 4 lb. (254/22)
Hydrastin. sulph. (257/17) Quin. sulph. (Howards'), 25-oz. tin; also 50 oz. loose (B. W.'s) (163/45)
Hydroquinone, 1 lb. (Scher- Quinine sulphate, 16 oz. (258/5)
ing) (163/45) Resorcin, 8 oz. (253/21)
Hydroquinone, 4 lb. (258/1) Salol, 8 oz. (253/21)
Indigo, 4 oz. (254/22) Scalol, 1 lb. (258/1)
Metol, 3 4-oz. original bottles, genuine (163/45) Metol, 12 oz. (258/1), and 8 oz. (253/21)
Novocain (2 5 grams) Sodium salicylate (phys. pure), 2 lb. (258/5)
Phenacetin, 8 oz. (253/21) Stearine, white (256/28)
Phenacetin tablets (5-gr.), 6 1/2 lb. (255/37) Styraol, three (255/36)
Theocin. sod. acet. (Bayer), 280 gr. (251/24)
Phenazonum, 8 oz. (253/21), Thiocol (Hoffman), 2 oz. (251/24)
and 1 lb. (254/22) Piperazine (Bayer), 2 oz. (251/24)
and 1 oz. (Evans) (251/24) Thiocol, two (255/36)
Pyro cryst., 3 lb. (258/1)

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

FOR DISPOSAL.

DRUGS AND CHEMICALS.

OFFERS wanted, 9 oz. pulv. phenacetin, B.P., 1 lb. bromine. Brooks, 35 Thurstane Street, Bolton.
MORPHIA bromide, hydrobromide, and hypophosphite, 14 oz.; the lot 10s. per oz. cash. 254/21, Office of this Paper.
WILL exchange quinine sulphate and lithia carbonate for bromides, potass. permang., aspirin, phenazone, phenacetin, or cash offers per ounce. Burge, Shirland Road, Paddington.
1 oz. quinine hydroch., 4s. 6d.; 16-oz. unopened tin B. & W. quin. sulph., 3s. 10d. oz.; 2 lb. hydrarg. perchlor., 6s. lb.; 4 100's sol. hydr. perchlor., 8.75, all for 5s. 6d.; 1/2 lb. lycopodium for 3s.; offers invited for 1 lb. Prussian blue, 9 oz. virgin scammony. "Pharmacist," 239 Roundhay Road, Leeds.

SHOP FITTINGS.

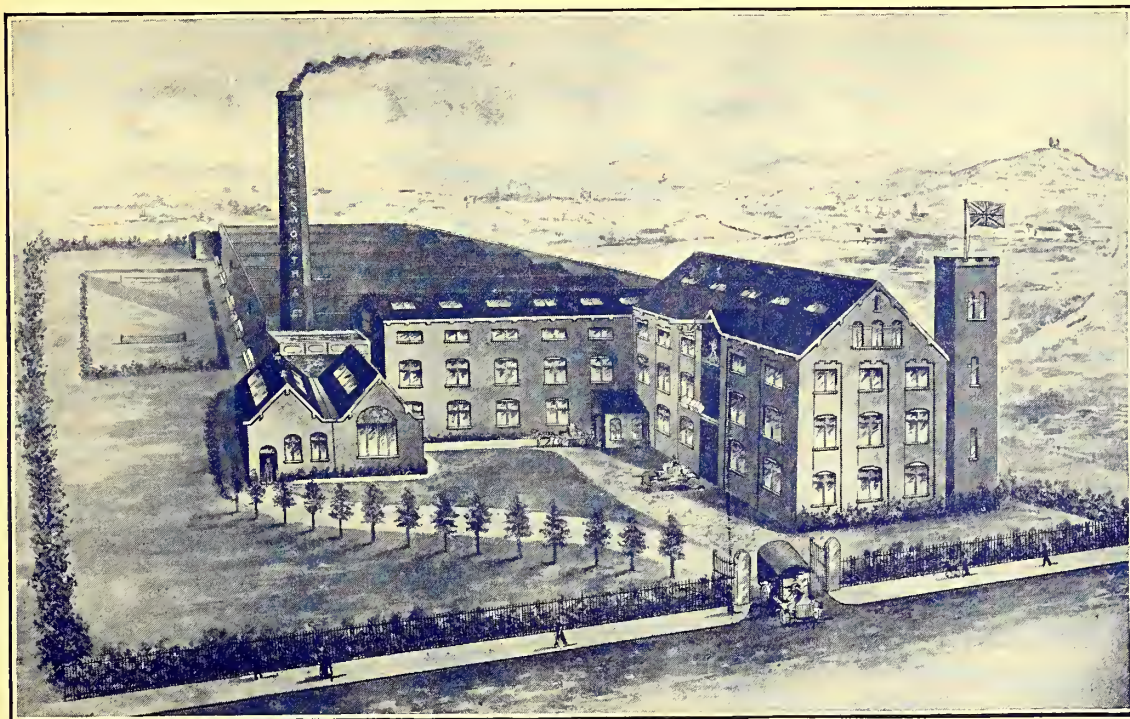
CHEMIST'S counter, 12 ft. long, mahogany top, plain front, 44 drawers, including label, paper, linseed meal, and till. Hepworth, Royland Road, Loughborough.

MISCELLANEOUS.

BEST cash offer: 4 gross round tins, slip lids, 2 1/2 by 1 1/2; 13 gross 3 1/2 by 2 1/2. Ross, Chemist, Hawick, N.B.
BLICK typewriter in oak case, commercial signs, good condition, recently put in order by Blick Co.; new typewheel; £4 10s. carriage paid. Silvoids, 1 Palace Gardens, Enfield.
1 50-gal. all-copper steam-jacket tilting pan, £30; 1 30-lb. copper tilting pan, iron jacket, £16; a few 6-oz. and 12-oz. wickered Cologne bottles, 5s. 6d., 8s. Barraclough & Co., Water Lane, Leeds.

WANTED.

SALOL.—Quantity and price to "V.," 162 Fore Street, Exeter.
WANTED, luminal or sodium luminal. Horniblow & Son, 29 Sidbury, Worcester.
OPTICAL trial case. Price, number of lenses, etc., Jolly, Chemist, Broughty Ferry.
RODAGEN required. Say quantity and price to Southall Bros. & Barelay, Ltd., Lower Priory, Birmingham.
EMULSIFYING machine and tincture press, in good condition. Particulars, price, etc., to "Emulsion," o/o Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool.
PEREGRIN water. State quantity and price, Newsholme, Ltd., 27 High Street, Sheffield.
TINS, vaseline, ointments, salves, plain or labelled; any quantity wanted for cash. Levers, 56 Chapel Street, Manchester.
OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Vulture Road, Clapham S.W.



THE NEW HOME OF THE “WIGGLESWORTH WAY”

ABOVE is a picture of our new home in Westhoughton, a progressive township standing high on the hills midway between Manchester and Liverpool.

Set in their own grounds the buildings present a very imposing appearance.

For nearly twelve months an army of workmen has been busily engaged in thoroughly remodelling the interior and equipping it with the latest and best ideas in machinery, electrical power, ventilation, lighting, and various forms of labour-saving devices. Nothing has been overlooked. The result is a model pharmacy embodying the last words in efficiency and equipment.

The situation is one of the healthiest in Lancashire, the atmosphere being beautifully clear and pure. Thus the manufacture of Tablets, Capsules and other Pharmaceutical Specialities popularised by the well-known “Wigglesworth Way” will proceed under conditions *ideal in every respect* and more than maintain the success already achieved.

A short eight years ago 250 sq. ft. of floor space was sufficient for our requirements. The “Wigglesworth Way” has led us to our spacious new home, where to-day we have a floor space of several thousand square feet. One room alone covering over 10,000 sq. ft. will convey some idea of the unlimited space at our disposal.

The “Wigglesworth Way” is the combination of highest grade products with the most successful form of advertising.

Over 2,000 live pharmacists have adopted and *proved it*.

Are you one of them? If so, we tender our thanks for your support. If not, write to-day for particulars of our unique salesmaking system.

WIGGLESWORTH & CO., WESTHOUGHTON, LANCS.

TO WHOLESALE & EXPORT TRADES.

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is absolutely pure & prepared only from the finest selected Cocoa*

**This Showcard FREE
with your first order—**

SEND us an order for Waterglass *now* and you will receive not only the finest quality packed in tins at the season's best prices, but, in addition, we will send you a couple of stout and handsome showcards (size $16\frac{1}{2}'' \times 11\frac{1}{4}''$ and printed in 6 colours, varnished).



Properly displayed, along with specimen tins, these showcards will enable you to sell your whole stock at a good price and in record time. Send us your order to-day.

PRICES:

1-lb. tins	...	...	...	at	3/-	doz.
2 "	"	"	"	"	5/-	"
4 "	"	"	"	"	8 6	"
7 "	"	"	"	"	13/-	"
14 "	"	"	"	"	25/-	"
Less 2½%.						Tins free. F.O.R. Leeds.

**Goodall, Backhouse & Co.
LEEDS.**

(And at 54 Southwark St, London, S.E.)



Specimen label free if you will mention the "Chemist and Druggist."

